SITE ASSESSMENT REPORT

North Point Government Center
7701 Wise Avenue
Dundalk, Maryland

Apex Job No. AMORT-004

September 26, 2016

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1.0 INTRODUCTION AND BACKGROUND

Apex Companies, LLC (Apex) is pleased to submit this report to A. Morton Thomas & Associates, Inc. (AMT) summarizing the results of its subsurface investigation at the North Point Government Facility addressed as 7701 Wise Avenue in Dundalk, Maryland (subject property). A Site Layout is provided in **Figure 1.**

The subsurface investigation was completed in accordance with the Maryland Department of the Environment (MDE) approved work plan dated June 16, 2016 and approved on July 21, 2016. The work plan was prepared in accordance with the MDE Request for Work Plan dated May 18, 2016. The MDE Request for Work Plan is associated with Oil Control Program (OCP) Case 2016-0467-BA, which was opened following a confirmed release from a supply line associated with an underground storage tank (UST) located at the subject property. The MDE Request for Work Plan identified the following requirements: 1) Submit a work plan for assessment activities to delineate the vertical and horizontal extent of contamination detected along the product piping run; 2) submit prior environmental investigation reports completed at the subject property; 3) perform follow up inspections of all storm drain manways impacted from the release; and 4) collect water samples from the storm drain manway located near the former piping run and from the storm drain outfall. A copy of the approved work plan is provided in **Attachment 1.**

The scope of work includes the collection of up to 10 subsurface soil samples from the area surrounding the former piping run and UST field; the development of three previously installed monitoring wells and, assuming the monitoring wells are viable, subsequent collection of groundwater samples from the three wells; collection of groundwater samples from 10 temporary groundwater monitoring wells; the inspection of all storm drain manways impacted from the release; and the collection of water samples from the storm drain manway near the former piping run and storm drain outfall.

2.0 FIELD ACTIVITIES AND SAMPLING METHODOLOGY

Prior to initiating field activities, Apex contacted "Miss Utility" to ensure that subsurface utility locations were identified and marked. The “Miss Utility" system locates underground utilities in public spaces and on easements. Apex also contracted with a private utility locating company to complete utility clearance in the proposed subsurface investigation area.

On August 4, 2016, Apex mobilized to the site to mark out boring location. Apex was accompanied by MDE representative, Ms. Ellen Jackson, AMT representative, Mr. Stephen Jarrick, and Baltimore County representative, Mr. John Messler. Boring locations were marked with input from MDE and were concentrated around the former piping run.

2.1 Subsurface Investigation

On August 11 and August 12, 2016, Apex mobilized to the site with a track-mounted Geoprobe rig, operated by Green Service, Inc. (GSI) to complete soil borings and install temporary groundwater monitoring wells in the proposed locations previously marked at the site. Apex was accompanied on site by Ms. Jackson and Mr. Messler. A site plan showing the soil borings and temporary groundwater monitoring well locations is presented in **Figure 2**. Apex completed a total of 10 soils borings at the subject property and converted the 10 borings to temporary 1-inch monitoring wells.

At each soil boring location, a 1.25-inch diameter stainless-steel core soil sampler was advanced into the subsurface using a dual tube system with a 2.25-inch outer casing. Soil samples were collected continuously during boring advancement. Within the core sampler was an acetate liner in which each soil sample was containerized for inspection and sample collection when brought to the surface. A portion of each soil sample was placed into a new sealed plastic bag for performing headspace analysis for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Soil samples were logged and classified by Apex’s on-site geologist and then field screened for evidence of VOCs using the PID. In addition, the samples were checked for visual and/or olfactory evidence of contamination. A log was maintained during field drilling operations that included the sample number, depth interval, field screening results, soil description, and other pertinent information (such as percent sample recovery, and moisture content). Boring logs are provided in **Attachment 2**.

Following the completion of each soil boring, soil samples were collected from the depth interval exhibiting the highest PID reading or from the depth interval directly above the soil/groundwater interface. Soil samples were submitted for laboratory analysis of TPH-DRO,

VOCs plus fuel oxygenates, and PAHs. The soil samples were submitted to Accutest Laboratories (Accutest) of Dayton, New Jersey. Laboratory data sheets and chain of custody for the soil samples are included as **Attachment 3**.

Temporary wells were installed at 10 boring locations to facilitate groundwater sample collection and to determine the depth of groundwater. The temporary wells were constructed using 0.75-inch diameter polyvinyl chloride (PVC) well screen and riser pipe. The temporary well points were sealed with a temporary bentonite seal and plastic well cap to prevent surface runoff from infiltrating the wells. The temporary wells points were left in place for a period of 2 weeks to gauge for the presence of free product prior to sample collection. Following collection of samples, temporary well pipes were removed and the borings were abandoned by backfilling with bentonite, and the surface was restored to the previous condition.

2.2 Existing Monitoring Well Development

On August 12, 2016, Apex mobilized to the site to re-development three existing monitoring wells identified as MW-1 through MW-3. The monitoring wells were developed using the methodology prescribed in the Environmental Protection Agency (EPA) 1992 Groundwater Forum *Monitoring Well Development Guidelines for Superfund Project Managers.* Monitoring well development for each well consisted of:

1. Initially recording the static water level and depth to bottom of the well;
2. Set a pump, record pumping rate and turbidity; pump until turbidity stabilizes;
3. Discontinue pumping and surge the well;
4. Measure depth to the well bottom, if more than 10% of the bottom well screen is occluded by sediment, remove the sediment by bailing or vacuum;
5. Reset the pump, record pumping rate and turbidity, pump until turbidity stabilizes;
6. Repeat until the well yields acceptable turbidity at the beginning of the pumping cycle.

Following monitoring well development, Apex allowed the groundwater levels to stabilize for a period of 2 weeks prior to collecting groundwater samples. On August 22 and August 23, 2016, Apex mobilized to the site to collect groundwater samples. Groundwater samples were collected from each of the 3 monitoring wells as well as the 10 temporary monitoring wells using a variable speed peristaltic pump with dedicated polyethylene. Approximately three well volumes were purged prior to sample collection. Groundwater samples were collected in appropriate laboratory glassware and submitted to Accutest for laboratory analysis of TPH-DRO and VOCs plus fuel oxygenates.

In accordance with the MDE Work Plan approval letter, Apex performed an investigation to determine the construction of the 3 existing monitoring wells. Apex submitted an inquiry to the Baltimore County Department of Environmental Protection and Sustainability (DEPS) asking for information related to the existing monitoring wells. The DEPS responded and provided Apex with Well Completion Reports for each of the 3 monitoring wells as well as a 4th monitoring well installed at the site. The location of the 4th monitoring well is unknown. The Well Completion Reports were associated with Permit #s BA-14-0197 through 0200 and were installed in September 2015.

Based on the information provided in the Well Completion Reports, MW-1 was completed to a maximum depth of 22 feet bgs; and MW-2 and MW-3 were completed to maximum depths of 15 feet bgs. Each well was constructed of 4-inch PVC piping with a 1- foot screen interval. MW-1 was completed as a stick up well, while MW-2 and MW-3 were completed with flush mount covers. The Well Completion Records are provided in **Attachment 4**.

2.3 Storm Drain Inspection

On August 12, 2016, Apex inspected 4 storm drain manways associated with the storm drain that was impacted by the release. In addition, Apex inspected the storm drain outfall located approximately 675 feet to the southwest of the former UST. A 5th storm drain manway exists within the median of Merritt Blvd. However, due to safety concerns, Apex did not inspect this manway following discussion and agreement by the onsite MDE inspector, Ms. Jackson.

Apex did not observed indications of petroleum impact within the storm drain manways with the exception of the storm drain manway located next to the former piping run. Apex observed a petroleum sheen along the bottom of the manway and noted a slight petroleum odor within the storm drain manway located next to the former piping run. Prior to entering the storm drain manway for inspection, Apex collected air quality data that indicated a PID reading of 1.5 parts per millions (ppm). Apex also inspected the storm drain outfall and did not observed indications of petroleum impact such as a petroleum sheen, petroleum odors, or stressed vegetation. A photographic log of the inspection is provided in **Attachment 5**.

Apex collected water samples from the storm drain manway located near the former piping run and the storm drain outfall. The water samples were submitted for laboratory analysis of TPH-DRO and VOCs plus fuel oxygenates.

3.0 RESULTS OF SUBSURFACE INVESTIGATION

3.1 Subsurface Conditions

This site is located within the Potomac Group of the Atlantic Coastal Plain Physiographic Province. The Potomac Group is characterized by interbedded quartzose gravels; protoquartzitic to orthoquartzitic argillaceous sands; and white, dark gray and multicolored silts and clays, with a thickness 0 to 800 feet.

Soil borings completed during this investigation were advanced to a maximum depth of 25 feet bgs. Boring locations are shown in **Figure 2** and boring logs are provided in **Attachment 2**. Based on the observations of the soil samples, fill material was observed from approximately 6 inches to approximately 3.5 feet bgs. Below the fill material, a white to brown medium gain sand was encountered from approximately 3.5 feet to boring completion at 25 feet bgs (maximum depth of sampling).

Depth to groundwater was measured at depths ranging from 15.15 feet at boring location SB-1 to 16.76 at boring location SB-9. Based on the results of well gauging performed at one week and two week intervals, free product was only detected at two locations identified as SB-5 and SB-8. Free product was measured at a thickness of 1.65 feet, 0.07 feet, and 1.51 feet in SB-5; and 0.37 feet, <0.01 feet, and 0.02 feet in SB-8. These product thicknesses were measured on August 12, August 19, and August 26, 2016, respectively. Well gauging data is presented in **Table 1**. A Groundwater Contour Map is provided in **Figure 3**.

3.2 Field Screening Analysis

Headspace analyses of soil samples collected during installation of the soil borings were conducted using a Minirae 3000 PID, 10.6 eV lamp calibrated to 100-parts per million (ppm) isobutylene in air. This instrument is capable of detecting VOC vapors, typically associated with petroleum fuels and chlorinated solvents. Apex observed elevated PID readings at boring locations SB-2, SB-5, and SB-8. PID readings ranged from approximately 1.9 ppm (SB-2) to approximately 175 ppm (SB-8) in these borings. Apex observed the highest PID readings at depths that coincided with the soil/groundwater interface. Apex also observed light staining and petroleum odors at these boring locations at the soil/groundwater interface. Although staining was observed, Apex did not observe free phase liquid petroleum hydrocarbons (LPH) at these locations on the site during boring progression. Free phase (LPH) was observed in SB-5 and SB-8 during well gauging performed at 1 week and 2 weeks following onsite activities.

Table 1
Well Gauging Data

North Point Government Center
7701 Wise Avenue
Dundalk, Maryland

Well ID	Date	Depth to Water	Depth to Product	Product Thickness
SB-1	8/19/2016	15.87	-	-
	8/26/2016	15.89	-	-
SB-2	8/19/2016	16.15	-	-
	8/26/2016	16.7	-	-
SB-3	8/19/2016	15.15	-	-
	8/26/2016	15.13	-	-
SB-4	8/19/2016	15.89	-	-
	8/26/2016	17.79	-	-
SB-5	8/12/2016	17.82	16.17	1.65
	8/19/2016	16.16	16.09	0.07
	8/26/2016	18.45	16.94	1.51
SB-6	8/19/2016	16.19	-	-
	8/26/2016	16.04	-	-
SB-7	8/19/2016	16.32	-	-
	8/26/2016	16.3	-	-
SB-8	8/12/2016	16.65	16.28	0.37
	8/19/2016	16.29	16.29	<0.01
	8/26/2016	16.3	16.28	0.02
SB-9	8/19/2016	16.76	-	-
	8/26/2016	17.5	-	-
SB-10	8/19/2016	15.88	-	-
	8/26/2016	16.12	-	-
MW-1	8/19/2016	16.49	-	-
	8/26/2016	16.61	-	-
MW-2	8/26/2016	11.11	-	-
MW-3	8/26/2016	10.46	-	-

3.3 Soil Analytical Results

Apex collected a total of 11 soil samples identified as SB-1-S through SB-10-S. Apex collected an additional sample at boring locations SB-8 at 5 to 10 feet bgs where impact was observed. Apex confirmed with the onsite MDE representative prior to sampling this zone. Results of the soil sampling analysis are presented in **Table 2**. Laboratory data sheets and chain of custody records are provided in **Attachment 3**.

Soil samples were collected at each boring location for laboratory analysis of TPH-DRO, PAHs, and VOCs plus fuel oxygenates. Given the current use of the site as a non-residential property, Apex has compared the shallow soil sample analytical results to the Maryland Generic Numeric Cleanup Standards for Non-Residential Soils (Soil Cleanup Standards) published in the MDE Interim Final Guidance dated June 2008.

Laboratory analytical results reported detections of TPH-DRO in soil samples identified as SB-2-S, SB-5-S, and SB-8-S. TPH-DRO concentrations were detected at 39.8 milligrams per kilogram (mg/kg) at SB-2; 2,380 mg/kg at SB-5; and 1,860 mg/kg at SB-8. Of the detections noted, only TPH-DRO concentrations at SB-5 and SB-8 exceed the Soil Cleanup Standard of 620 mg/kg for TPH-DRO.

VOCs were detected above the laboratory method practical quantitation limit (PQL) in the 11 soil samples submitted. Of the VOCs detected, none exceeded their respective Soil Cleanup Standards.

PAHs were detected above the laboratory method PQL in the 2 of the 11 soil samples submitted at boring locations SB-5 and SB-8. Of the PAHs detected, none exceeded their respective Soil Cleanup Standards.

3.4 Groundwater Analytical Results

Apex collected a total of 13 groundwater samples including 3 samples from existing monitoring wells (identified as MW-1 through MW-3) and 10 samples from temporary monitoring wells (SB-1 through SB-10). Results of the groundwater sampling analysis are presented in **Table 3**. Laboratory data sheets and chain of custody records are provided in **Attachment 3**.

Laboratory analytical results reported detections of TPH-DRO concentrations above the laboratory method PQL. Apex compared the laboratory results to the Maryland Generic Numeric

Cleanup Standards for Groundwater. (Groundwater Cleanup Standards). The reported detections are discussed below.

- TPH-DRO was detected in 5 of the 13 groundwater samples collected at concentrations ranging from 0.164 milligrams per liter (mg/L) to 5.47 mg/L. The 5 detections of TPH-DRO exceeded the Groundwater Cleanup Standard of 0.047 mg/L with the highest concentrations observed at location SB-8. TPH-DRO was not detected in groundwater samples collected from SB-1, SB-3, SB-6, SB-7, SB-9, SB-10, MW-2, and MW-3.

Concentrations of VOCs were detected above the laboratory method PQL in all 12 of the 13 groundwater samples collected. Of the 13 groundwater samples analyzed, only 3 samples had reported concentrations above the Groundwater Cleanup Standards. These samples and concentrations are discussed below.

- Naphthalene was the only VOC detected above the Groundwater Cleanup Standard. Naphthalene was detected at concentrations of 1.8J micrograms per liter (µg/L) at location SB-4, 52.9 µg/L at location SB-5, and 24.1 µg/L at boring location SB-8. These concentrations of naphthalene exceeded the Groundwater Cleanup Standard of 0.65 µg/L for Naphthalene.

3.5 Storm Drain Water Sample Analytical Results

Apex collected a 2 storm drain water samples; one from the storm drain manway located near the former piping run (identified as SW-Manway); and one from the storm drain outfall (identified as SW-Outfall). Results of the storm drain water sampling analysis are presented in **Table 4**. Laboratory data sheets and chain of custody records are provided in **Attachment 3**.

Based on the results of the laboratory analysis, TPH-DRO and acetone were detected in the sample collected from the storm drain manway located near the former piping run. TPH-DRO was detected a concentration of 0.169 mg/L and acetone was detected at a concentration of 4.2J mg/L. No other detections of TPH-DRO or VOCs were detected above the laboratory PQL in either sample analyzed. Apex notes that Maryland does not have published cleanup standards for surface water.

4.0 CONCLUSIONS

Apex completed subsurface investigation activities located at the North Point Government Center addressed as 7701 Wise Avenue in Dundalk, Maryland. The subsurface investigation was completed in accordance with the MDE approved work plan dated June 2016 and approved in July 2016. On-site activities were completed from August 4 through August 26, 2016, which included the completion of 10 borings, sampling of 3 existing monitoring wells, and a storm drain manway inspection. The following conclusions are made based on the laboratory chemical data and field observations from Apex's investigation:

Soil Samples Results

- Laboratory analytical results reported detections of TPH-DRO in soil samples identified as SB-2-S, SB-5-S, and SB-8-S. TPH-DRO concentrations were detected at 39.8 milligrams per kilogram (mg/kg) at SB-2; 2,380 mg/kg at SB-5; and 1,860 mg/kg at SB-8. Of the detections noted, only TPH-DRO concentrations at SB-5 and SB-8 exceed the Soil Cleanup Standard of 620 mg/kg for TPH-DRO.

- VOCs were detected above the laboratory method practical quantitation limit (PQL) in the 11 soil samples submitted. Of the VOCs detected, none exceeded their respective Soil Cleanup Standards.

- PAHs were detected above the laboratory method PQL in the 2 of the 11 soil samples submitted at boring locations SB-5 and SB-8. Of the PAHs detected, none exceeded their respective Soil Cleanup Standards.

Groundwater Sample Results

- TPH-DRO was detected in 5 of the 13 groundwater samples collected at concentrations ranging from 0.164 milligrams per liter (mg/L) to 5.47 mg/L. The 5 detections of TPH-DRO exceeded the Groundwater Cleanup Standard of 0.047 mg/L with the highest concentrations observed at location SB-8. TPH-DRO was not detected in groundwater samples collected from SB-1, SB-3, SB-6, SB-7, SB-9, SB-10, MW-2, and MW-3.

- Naphthalene was the only VOC detected above the Groundwater Cleanup Standard. Naphthalene was detected at concentrations of 1.8J µg/L) at location SB-4, 52.9 µg/L at location SB-5, and 24.1 µg/L at boring location SB-8. These concentrations of naphthalene exceeded the Groundwater Cleanup Standard of 0.65 µg/L for Naphthalene.

Storm Drain Water Sample Results

- Based on the results of the laboratory analysis, TPH-DRO and acetone were detected in the sample collected from the storm drain manway located near the former piping run. TPH-DRO was detected a concentration of 0.169 mg/L and acetone was detected at a concentration of 4.2J mg/L. No other detections of TPH-DRO or VOCs were detected above the laboratory PQL in either sample analyzed. Apex notes that Maryland does not have published cleanup standards for surface water.

The findings of this investigation suggest that on-site soils and groundwater have been impacted by the release associated with Case # 2016-0467-BA at the site. Impacted soil and groundwater were observed in the vicinity of the former piping run along its eastern side with petroleum concentrations detected above the MDE Cleanup Standards in soils and groundwater. The impact appears to be limited to this area and does not extend further downgradient as determined by Apex's observations and the groundwater data obtained from the 3 existing monitoring wells.

In addition, free product was observed in SB-5, located in the eastern side of the former piping run, and SB-8, located approximately 10 ft downgradient of SB-5. Based on Apex's well gauging observations, free product appears to be limited around SB-5 and has not migrated beyond SB-8. Given the limited amount of free product observed in SB-8 after stabilization and the groundwater concentrations, Apex does not believe the free product is still migrating and/or is mobile.

TABLES AND FIGURES

Apex Companies, LLC				Table 2 - Soil Sample Results				
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD							
Project Number:	AMORT-004							
						Legend:	Hit	Exceed
Client Sample ID:		MD Cleanup Standards - Non-Residential Soil (MDE 6/2008)	SB-1-S	SB-2-S	SB-3-S	SB-4-S	SB-5-S	SB-6-S
Lab Sample ID:			JC25831-1	JC25831-2	JC25831-3	JC25831-4	JC25831-5	JC25831-6
Date Sampled:			8/11/2016	8/11/2016	8/12/2016	8/11/2016	8/11/2016	8/11/2016
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260C)								
Acetone	ug/kg	92000000	ND (2.3)	ND (2.2)	23.6	ND (2.3)	ND (240)	ND (2.7)
Benzene	ug/kg	52000	ND (0.15)	ND (0.14)	ND (0.17)	ND (0.15)	36.0 J	ND (0.17)
Bromobenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	ND (20)	ND (0.22)
Bromochloromethane	ug/kg	-	ND (0.39)	ND (0.38)	ND (0.44)	ND (0.39)	ND (41)	ND (0.46)
Bromodichloromethane	ug/kg	46000	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	ND (19)	ND (0.22)
Bromoform	ug/kg	360000	ND (0.33)	ND (0.32)	ND (0.37)	ND (0.32)	ND (34)	ND (0.38)
Bromomethane	ug/kg	140000	ND (0.59)	ND (0.58)	ND (0.67)	ND (0.59)	ND (62)	ND (0.70)
2-Butanone (MEK)	ug/kg	61000000	ND (2.2)	ND (2.1)	ND (2.4)	ND (2.1)	ND (230)	ND (2.5)
n-Butylbenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	6950	ND (0.22)
sec-Butylbenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	5180	ND (0.22)
tert-Butylbenzene	ug/kg	-	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	134 J	ND (0.23)
Carbon tetrachloride	ug/kg	22000	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.20)	ND (21)	ND (0.24)
Chlorobenzene	ug/kg	2000000	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (21)	ND (0.23)
Chloroethane	ug/kg	990000	ND (0.52)	ND (0.51)	ND (0.59)	ND (0.52)	ND (55)	ND (0.62)
Chloroform	ug/kg	1000000	0.41 J	ND (0.28)	ND (0.33)	ND (0.29)	ND (30)	ND (0.34)
Chloromethane	ug/kg	--	ND (0.26)	ND (0.25)	ND (0.29)	ND (0.26)	ND (27)	ND (0.30)
o-Chlorotoluene	ug/kg	-	ND (0.25)	ND (0.24)	ND (0.28)	ND (0.25)	ND (26)	ND (0.29)
p-Chlorotoluene	ug/kg	-	ND (0.30)	ND (0.29)	ND (0.34)	ND (0.30)	ND (31)	ND (0.35)
Di-Isopropyl ether	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (17)	ND (0.19)
1,2-Dibromo-3-chloropropane	ug/kg	3600	ND (0.59)	ND (0.58)	ND (0.67)	ND (0.59)	ND (62)	ND (0.70)
Dibromochloromethane	ug/kg	34000	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)	ND (19)	ND (0.22)
1,2-Dibromoethane	ug/kg	1400	ND (0.30)	ND (0.29)	ND (0.33)	ND (0.30)	ND (31)	ND (0.35)
1,2-Dichlorobenzene	ug/kg	9200000	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.21)	ND (22)	ND (0.25)
1,3-Dichlorobenzene	ug/kg	310000	ND (0.17)	ND (0.16)	ND (0.19)	ND (0.17)	ND (18)	ND (0.20)
1,4-Dichlorobenzene	ug/kg	120000	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	ND (20)	ND (0.22)
Dichlorodifluoromethane	ug/kg	-	ND (0.67)	ND (0.65)	ND (0.75)	ND (0.67)	ND (70)	ND (0.79)
1,1-Dichloroethane	ug/kg	20000000	ND (0.23)	ND (0.22)	ND (0.26)	ND (0.23)	ND (24)	ND (0.27)
1,2-Dichloroethane	ug/kg	31000	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.21)	ND (22)	ND (0.25)
1,1-Dichloroethene	ug/kg	5100000	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	ND (20)	ND (0.22)
cis-1,2-Dichloroethene	ug/kg	1000000	ND (0.54)	ND (0.52)	ND (0.60)	ND (0.53)	ND (56)	ND (0.63)
trans-1,2-Dichloroethene	ug/kg	2000000	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (20)	ND (0.23)
1,2-Dichloropropane	ug/kg	42000	ND (0.38)	ND (0.37)	ND (0.43)	ND (0.38)	ND (40)	ND (0.45)
1,3-Dichloropropane	ug/kg	-	ND (0.24)	ND (0.23)	ND (0.27)	ND (0.24)	ND (25)	ND (0.28)
2,2-Dichloropropane	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	ND (20)	ND (0.22)
1,1-Dichloropropene	ug/kg	-	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (20)	ND (0.23)
cis-1,3-Dichloropropene	ug/kg	29000	ND (0.24)	ND (0.23)	ND (0.27)	ND (0.24)	ND (25)	ND (0.28)
trans-1,3-Dichloropropene	ug/kg	29000	ND (0.27)	ND (0.26)	ND (0.30)	ND (0.27)	ND (28)	ND (0.32)
Ethylbenzene	ug/kg	10000000	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)	1930	ND (0.21)
Hexachlorobutadiene	ug/kg	37000	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (20)	ND (0.23)
Isopropylbenzene	ug/kg	10000000	ND (0.19)	ND (0.18)	ND (0.21)	ND (0.19)	1090	ND (0.22)
p-Isopropyltoluene	ug/kg	-	ND (0.30)	ND (0.29)	ND (0.34)	ND (0.30)	5010	ND (0.35)
Methyl Tert Butyl Ether	ug/kg	720000	ND (0.32)	ND (0.32)	ND (0.37)	ND (0.32)	ND (34)	ND (0.38)
4-Methyl-2-pentanone(MIBK)	ug/kg	--	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.0)	ND (110)	ND (1.2)
Methylene bromide	ug/kg	-	ND (0.46)	ND (0.45)	ND (0.52)	ND (0.46)	ND (48)	ND (0.54)
Methylene chloride	ug/kg	380000	1.1 J	0.65 J	ND (0.47)	1.1 J	ND (44)	1.4 J
Naphthalene	ug/kg	2000000	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.18)	8230	ND (0.21)
n-Propylbenzene	ug/kg	-	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)	2610	ND (0.29)
Styrene	ug/kg	20000000	ND (0.18)	ND (0.17)	0.28 J	ND (0.18)	ND (19)	ND (0.21)
Tert Butyl Alcohol	ug/kg	-	ND (3.7)	ND (3.6)	ND (4.2)	ND (3.7)	ND (390)	ND (4.4)
tert-Amyl Methyl Ether	ug/kg	-	ND (0.65)	ND (0.64)	ND (0.73)	ND (0.65)	ND (68)	ND (0.77)
tert-Butyl Ethyl Ether	ug/kg	-	ND (0.32)	ND (0.31)	ND (0.36)	ND (0.32)	ND (33)	ND (0.37)
1,1,1,2-Tetrachloroethane	ug/kg	-	ND (0.26)	ND (0.25)	ND (0.29)	ND (0.26)	ND (27)	ND (0.31)
1,1,2,2-Tetrachloroethane	ug/kg	14000	ND (0.29)	ND (0.28)	ND (0.33)	ND (0.29)	ND (31)	ND (0.34)
Tetrachloroethene	ug/kg	5300	ND (0.34)	ND (0.33)	ND (0.39)	ND (0.34)	ND (36)	ND (0.41)
Toluene	ug/kg	8200000	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	1630	ND (0.18)

Client Sample ID:		MD Cleanup Standards - Non-Residential Soil (MDE 6/2008)	SB-1-S	SB-2-S	SB-3-S	SB-4-S	SB-5-S	SB-6-S
Lab Sample ID:			JC25831-1	JC25831-2	JC25831-3	JC25831-4	JC25831-5	JC25831-6
Date Sampled:			8/11/2016	8/11/2016	8/12/2016	8/11/2016	8/11/2016	8/11/2016
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil
1,2,3-Trichlorobenzene	ug/kg	-	ND (0.28)	ND (0.27)	ND (0.31)	ND (0.28)	ND (29)	ND (0.33)
1,2,4-Trichlorobenzene	ug/kg	1000000	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (23)	ND (0.26)
1,1,1-Trichloroethane	ug/kg	200000000	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.20)	ND (21)	ND (0.24)
1,1,2-Trichloroethane	ug/kg	50000	ND (0.40)	ND (0.38)	ND (0.44)	ND (0.39)	ND (41)	ND (0.47)
Trichloroethene	ug/kg	7200	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.23)	ND (24)	ND (0.27)
Trichlorofluoromethane	ug/kg	-	ND (0.77)	ND (0.75)	ND (0.87)	ND (0.77)	ND (80)	ND (0.91)
1,2,3-Trichloropropane	ug/kg	-	ND (0.94)	ND (0.92)	ND (1.1)	ND (0.94)	ND (99)	ND (1.1)
1,2,4-Trimethylbenzene	ug/kg	-	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	40600	ND (0.25)
1,3,5-Trimethylbenzene	ug/kg	-	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.20)	16000	ND (0.24)
Vinyl chloride	ug/kg	4000	ND (0.25)	ND (0.24)	ND (0.28)	ND (0.25)	ND (26)	ND (0.29)
m,p-Xylene	ug/kg	20000000	ND (0.27)	ND (0.26)	ND (0.30)	ND (0.27)	12900	ND (0.32)
o-Xylene	ug/kg	20000000	ND (0.25)	ND (0.24)	ND (0.28)	ND (0.25)	8170	ND (0.29)
Xylene (total)	ug/kg	20000000	ND (0.25)	ND (0.24)	ND (0.28)	ND (0.25)	21100	ND (0.29)
GC/MS Semi-volatiles (SW846 8270D)								
Acenaphthene	ug/kg	6100000	ND (14)	ND (14)	ND (11)	ND (13)	ND (13)	ND (14)
Acenaphthylene	ug/kg	6100000	ND (21)	ND (21)	ND (17)	ND (19)	ND (20)	ND (21)
Anthracene	ug/kg	31000000	ND (26)	ND (26)	ND (20)	ND (23)	ND (24)	ND (25)
Benzo(a)anthracene	ug/kg	3900	ND (12)	ND (12)	ND (9.3)	ND (11)	21.6 J	ND (12)
Benzo(a)pyrene	ug/kg	390	ND (19)	ND (19)	ND (15)	ND (17)	ND (18)	ND (19)
Benzo(b)fluoranthene	ug/kg	3900	ND (19)	ND (18)	ND (14)	ND (17)	ND (17)	ND (18)
Benzo(g,h,i)perylene	ug/kg	3100000	ND (21)	ND (21)	ND (16)	ND (19)	ND (20)	ND (21)
Benzo(k)fluoranthene	ug/kg	39000	ND (20)	ND (19)	ND (15)	ND (18)	ND (18)	ND (19)
Chrysene	ug/kg	390000	ND (13)	ND (13)	ND (10)	ND (12)	39.6	ND (13)
Dibenzo(a,h)anthracene	ug/kg	390	ND (19)	ND (18)	ND (14)	ND (17)	ND (17)	ND (18)
Fluoranthene	ug/kg	4100000	ND (19)	ND (19)	ND (15)	ND (17)	ND (17)	ND (19)
Fluorene	ug/kg	4100000	ND (19)	ND (19)	ND (15)	ND (17)	771	ND (19)
Indeno(1,2,3-cd)pyrene	ug/kg	3900	ND (20)	ND (20)	ND (15)	ND (18)	ND (18)	ND (19)
Naphthalene	ug/kg	2000000	ND (12)	ND (12)	ND (9.2)	ND (11)	3310	ND (12)
Phenanthrene	ug/kg	31000000	ND (14)	ND (14)	ND (11)	ND (13)	1690	ND (14)
Pyrene	ug/kg	3100000	ND (13)	ND (13)	ND (10)	ND (12)	574	ND (13)
GC Semi-volatiles (SW846 8015C)								
TPH-DRO (C10-C28)	mg/kg	620	ND (2.5)	39.8	ND (1.8)	ND (2.3)	**2380**	ND (2.4)
General Chemistry								
Solids, Percent	%	-	77.1	76.3	98.1	81.9	83.2	73.8

Client Sample ID:		MD Cleanup Standards - Non-Residential Soil (MDE 6/2008)	SB-7-S	SB-8-S-1	SB-8-S-2	SB-9-S	SB-10-S
Lab Sample ID:			JC25831-7	JC25831-8	JC25831-9	JC25831-10	JC25831-11
Date Sampled:			8/11/2016	8/11/2016	8/11/2016	8/12/2016	8/12/2016
Matrix:			Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260C)							
Acetone	ug/kg	92000000	ND (2.1)	ND (2.6)	ND (2.1)	ND (270)	ND (1.9)
Benzene	ug/kg	52000	ND (0.14)	ND (0.17)	ND (0.13)	ND (17)	ND (0.12)
Bromobenzene	ug/kg	-	ND (0.17)	ND (0.22)	ND (0.17)	ND (22)	ND (0.16)
Bromochloromethane	ug/kg	-	ND (0.36)	ND (0.45)	ND (0.35)	ND (46)	ND (0.33)
Bromodichloromethane	ug/kg	46000	ND (0.17)	ND (0.21)	ND (0.17)	ND (22)	ND (0.16)
Bromoform	ug/kg	360000	ND (0.30)	ND (0.37)	ND (0.29)	ND (38)	ND (0.27)
Bromomethane	ug/kg	140000	ND (0.55)	ND (0.68)	ND (0.53)	ND (70)	ND (0.50)
2-Butanone (MEK)	ug/kg	61000000	ND (2.0)	ND (2.5)	ND (1.9)	ND (250)	ND (1.8)
n-Butylbenzene	ug/kg	-	ND (0.17)	ND (0.21)	0.34 J	27700	ND (0.16)
sec-Butylbenzene	ug/kg	-	ND (0.17)	ND (0.22)	1.1 J	17300	ND (0.16)
tert-Butylbenzene	ug/kg	-	ND (0.18)	ND (0.22)	ND (0.17)	533	ND (0.16)
Carbon tetrachloride	ug/kg	22000	ND (0.19)	ND (0.23)	ND (0.18)	ND (24)	ND (0.17)
Chlorobenzene	ug/kg	2000000	ND (0.18)	ND (0.23)	ND (0.18)	ND (23)	ND (0.17)
Chloroethane	ug/kg	990000	ND (0.48)	ND (0.60)	ND (0.47)	ND (62)	ND (0.44)
Chloroform	ug/kg	1000000	ND (0.27)	ND (0.34)	ND (0.26)	ND (34)	ND (0.24)
Chloromethane	ug/kg	--	ND (0.24)	ND (0.30)	ND (0.23)	ND (30)	ND (0.22)
o-Chlorotoluene	ug/kg	-	ND (0.23)	ND (0.29)	ND (0.22)	ND (29)	ND (0.21)
p-Chlorotoluene	ug/kg	-	ND (0.28)	ND (0.34)	ND (0.27)	ND (35)	ND (0.25)
Di-Isopropyl ether	ug/kg	-	ND (0.15)	ND (0.19)	ND (0.15)	ND (19)	ND (0.14)
1,2-Dibromo-3-chloropropane	ug/kg	3600	ND (0.55)	ND (0.68)	ND (0.53)	ND (70)	ND (0.49)
Dibromochloromethane	ug/kg	34000	ND (0.17)	ND (0.21)	ND (0.16)	ND (22)	ND (0.15)
1,2-Dibromoethane	ug/kg	1400	ND (0.27)	ND (0.34)	ND (0.27)	ND (35)	ND (0.25)
1,2-Dichlorobenzene	ug/kg	9200000	ND (0.19)	ND (0.24)	ND (0.19)	ND (25)	ND (0.17)
1,3-Dichlorobenzene	ug/kg	310000	ND (0.15)	ND (0.19)	ND (0.15)	ND (20)	ND (0.14)
1,4-Dichlorobenzene	ug/kg	120000	ND (0.17)	ND (0.22)	ND (0.17)	ND (22)	ND (0.16)
Dichlorodifluoromethane	ug/kg	-	ND (0.62)	ND (0.77)	ND (0.60)	ND (78)	ND (0.56)
1,1-Dichloroethane	ug/kg	20000000	ND (0.21)	ND (0.26)	ND (0.21)	ND (27)	ND (0.19)
1,2-Dichloroethane	ug/kg	31000	ND (0.19)	ND (0.24)	ND (0.19)	ND (25)	ND (0.17)
1,1-Dichloroethene	ug/kg	5100000	ND (0.17)	ND (0.22)	ND (0.17)	ND (22)	ND (0.16)
cis-1,2-Dichloroethene	ug/kg	1000000	ND (0.50)	ND (0.62)	ND (0.48)	ND (63)	ND (0.45)
trans-1,2-Dichloroethene	ug/kg	2000000	ND (0.18)	ND (0.22)	ND (0.17)	ND (23)	ND (0.16)
1,2-Dichloropropane	ug/kg	42000	ND (0.35)	ND (0.44)	ND (0.34)	ND (44)	ND (0.32)
1,3-Dichloropropane	ug/kg	-	ND (0.22)	ND (0.28)	ND (0.22)	ND (28)	ND (0.20)
2,2-Dichloropropane	ug/kg	-	ND (0.17)	ND (0.22)	ND (0.17)	ND (22)	ND (0.16)
1,1-Dichloropropene	ug/kg	-	ND (0.18)	ND (0.22)	ND (0.17)	ND (23)	ND (0.16)
cis-1,3-Dichloropropene	ug/kg	29000	ND (0.22)	ND (0.28)	ND (0.22)	ND (28)	ND (0.20)
trans-1,3-Dichloropropene	ug/kg	29000	ND (0.25)	ND (0.31)	ND (0.24)	ND (32)	ND (0.23)
Ethylbenzene	ug/kg	10000000	ND (0.17)	ND (0.21)	0.61 J	10600	ND (0.15)
Hexachlorobutadiene	ug/kg	37000	ND (0.18)	ND (0.22)	ND (0.17)	ND (23)	ND (0.16)
Isopropylbenzene	ug/kg	10000000	ND (0.17)	ND (0.22)	0.30 J	7510	ND (0.16)
p-Isopropyltoluene	ug/kg	-	ND (0.28)	ND (0.34)	1.5 J	15700	ND (0.25)
Methyl Tert Butyl Ether	ug/kg	720000	ND (0.30)	ND (0.37)	ND (0.29)	ND (38)	ND (0.27)
4-Methyl-2-pentanone(MIBK)	ug/kg	--	ND (0.96)	ND (1.2)	ND (0.93)	ND (120)	ND (0.87)
Methylene bromide	ug/kg	-	ND (0.43)	ND (0.53)	ND (0.41)	ND (54)	ND (0.38)
Methylene chloride	ug/kg	380000	0.66 J	0.82 J	1.1 J	ND (49)	0.69 J
Naphthalene	ug/kg	2000000	ND (0.16)	ND (0.20)	23.5	16900	ND (0.15)
n-Propylbenzene	ug/kg	-	ND (0.22)	ND (0.28)	0.58 J	21400	ND (0.20)
Styrene	ug/kg	20000000	ND (0.16)	ND (0.20)	ND (0.16)	ND (21)	ND (0.15)
Tert Butyl Alcohol	ug/kg	-	ND (3.4)	ND (4.3)	ND (3.3)	ND (440)	ND (3.1)
tert-Amyl Methyl Ether	ug/kg	-	ND (0.60)	ND (0.75)	ND (0.59)	ND (77)	ND (0.54)
tert-Butyl Ethyl Ether	ug/kg	-	ND (0.29)	ND (0.36)	ND (0.28)	ND (37)	ND (0.26)
1,1,1,2-Tetrachloroethane	ug/kg	-	ND (0.24)	ND (0.30)	ND (0.23)	ND (30)	ND (0.22)
1,1,2,2-Tetrachloroethane	ug/kg	14000	ND (0.27)	ND (0.34)	ND (0.26)	ND (34)	ND (0.24)
Tetrachloroethene	ug/kg	5300	ND (0.32)	ND (0.40)	ND (0.31)	ND (40)	ND (0.29)
Toluene	ug/kg	8200000	ND (0.14)	ND (0.18)	0.47 J	1890	ND (0.13)
1,2,3-Trichlorobenzene	ug/kg	-	ND (0.26)	ND (0.32)	2.0 J	ND (32)	ND (0.23)
1,2,4-Trichlorobenzene	ug/kg	1000000	ND (0.21)	ND (0.26)	ND (0.20)	ND (26)	ND (0.19)
1,1,1-Trichloroethane	ug/kg	200000000	ND (0.19)	ND (0.24)	ND (0.18)	ND (24)	ND (0.17)
1,1,2-Trichloroethane	ug/kg	50000	ND (0.37)	ND (0.46)	ND (0.35)	ND (46)	ND (0.33)

Client Sample ID:		MD Cleanup Standards - Non-Residential Soil (MDE 6/2008)	SB-7-S	SB-8-S-1	SB-8-S-2	SB-9-S	SB-10-S
Lab Sample ID:			JC25831-7	JC25831-8	JC25831-9	JC25831-10	JC25831-11
Date Sampled:			8/11/2016	8/11/2016	8/11/2016	8/12/2016	8/12/2016
Matrix:			Soil	Soil	Soil	Soil	Soil
Trichloroethene	ug/kg	7200	ND (0.21)	ND (0.27)	ND (0.21)	ND (27)	ND (0.19)
Trichlorofluoromethane	ug/kg	-	ND (0.71)	ND (0.89)	ND (0.69)	ND (90)	ND (0.64)
1,2,3-Trichloropropane	ug/kg	-	ND (0.87)	ND (1.1)	ND (0.85)	ND (110)	ND (0.79)
1,2,4-Trimethylbenzene	ug/kg	-	ND (0.20)	ND (0.25)	91.8	151000	ND (0.18)
1,3,5-Trimethylbenzene	ug/kg	-	ND (0.19)	ND (0.23)	70.3	53100	ND (0.17)
Vinyl chloride	ug/kg	4000	ND (0.23)	ND (0.28)	ND (0.22)	ND (29)	ND (0.21)
m,p-Xylene	ug/kg	20000000	ND (0.25)	ND (0.31)	6.6	50100	ND (0.22)
o-Xylene	ug/kg	20000000	ND (0.23)	ND (0.28)	20.6	28800	ND (0.21)
Xylene (total)	ug/kg	20000000	ND (0.23)	ND (0.28)	27.2	78900	ND (0.21)
GC/MS Semi-volatiles (SW846 8270D)							
Acenaphthene	ug/kg	6100000	ND (11)	ND (15)	ND (12)	ND (15)	ND (12)
Acenaphthylene	ug/kg	6100000	ND (17)	ND (22)	ND (17)	ND (22)	ND (18)
Anthracene	ug/kg	31000000	ND (20)	ND (26)	ND (21)	ND (27)	ND (22)
Benzo(a)anthracene	ug/kg	3900	ND (9.3)	ND (12)	ND (9.7)	ND (12)	ND (10)
Benzo(a)pyrene	ug/kg	390	ND (15)	ND (19)	ND (16)	ND (20)	ND (16)
Benzo(b)fluoranthene	ug/kg	3900	ND (15)	ND (19)	ND (15)	ND (19)	ND (16)
Benzo(g,h,i)perylene	ug/kg	3100000	ND (16)	ND (21)	ND (17)	ND (22)	ND (18)
Benzo(k)fluoranthene	ug/kg	39000	ND (15)	ND (20)	ND (16)	ND (20)	ND (17)
Chrysene	ug/kg	390000	ND (10)	ND (13)	ND (11)	ND (14)	ND (11)
Dibenzo(a,h)anthracene	ug/kg	390	ND (15)	ND (19)	ND (15)	ND (19)	ND (16)
Fluoranthene	ug/kg	4100000	ND (15)	ND (19)	ND (15)	ND (19)	ND (16)
Fluorene	ug/kg	4100000	ND (15)	ND (20)	ND (16)	241	ND (16)
Indeno(1,2,3-cd)pyrene	ug/kg	3900	ND (15)	ND (20)	ND (16)	ND (20)	ND (17)
Naphthalene	ug/kg	2000000	ND (9.3)	ND (12)	ND (9.7)	623	ND (10)
Phenanthrene	ug/kg	31000000	ND (11)	ND (14)	ND (12)	371	ND (12)
Pyrene	ug/kg	3100000	ND (11)	ND (14)	ND (11)	157	ND (11)
GC Semi-volatiles (SW846 8015C)							
TPH-DRO (C10-C28)	mg/kg	620	ND (1.9)	ND (2.5)	ND (2.9)	**1860**	ND (3.1)
General Chemistry							
Solids, Percent	%	-	94.1	75.5	94.9	73.6	90.7

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. SGS Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

2 results exceeded regulatory criteria.

Apex Companies,		Table 3 - Groundwater Sample Results							
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD								
Project Number:	AMORT-004								
									Legend:
Client Sample ID:		MD Cleanup Standards - Groundwater Type I and II Aquifers (MDE 6/2008)	SB-1-GW	SB-2-GW	SB-3-GW	SB-4-GW	SB-5-GW	SB-6-GW	SB-7-GW
Lab Sample ID:			JC26620-1	JC26620-2	JC26620-3	JC26620-4	JC26620-5	JC26620-6	JC26620-7
Date Sampled:			8/25/2016	8/25/2016	8/25/2016	8/25/2016	8/25/2016	8/25/2016	8/25/2016
Matrix:			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846 8260C)									
Acetone	ug/l	550	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Benzene	ug/l	5	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	2.2	ND (0.14)	ND (0.14)
Bromobenzene	ug/l	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Bromochloromethane	ug/l	-	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
Bromodichloromethane	ug/l	80	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Bromoform	ug/l	80	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Bromomethane	ug/l	0.85	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
2-Butanone (MEK)	ug/l	700	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
n-Butylbenzene	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	0.50 J	5.5	ND (0.28)	ND (0.28)
sec-Butylbenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	5.2	ND (1.0)	ND (1.0)
tert-Butylbenzene	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Carbon tetrachloride	ug/l	5	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Chlorobenzene	ug/l	100	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	, SB
Chloroethane	ug/l	3.6	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
Chloroform	ug/l	80	5.4	5.5	1.6	4.4	8.8	0.46 J	0.70 J
Chloromethane	ug/l	19	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)
o-Chlorotoluene	ug/l	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
p-Chlorotoluene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Di-Isopropyl ether	ug/l	-	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
1,2-Dibromo-3-chloropropane	ug/l	0.2	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
Dibromochloromethane	ug/l	80	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2-Dibromoethane	ug/l	0.05	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dichlorobenzene	ug/l	600	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,3-Dichlorobenzene	ug/l	1.8	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,4-Dichlorobenzene	ug/l	75	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Dichlorodifluoromethane	ug/l	-	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)
1,1-Dichloroethane	ug/l	90	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloroethane	ug/l	5	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
1,1-Dichloroethene	ug/l	7	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
cis-1,2-Dichloroethene	ug/l	70	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
trans-1,2-Dichloroethene	ug/l	100	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,2-Dichloropropane	ug/l	5	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
1,3-Dichloropropane	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
2,2-Dichloropropane	ug/l	-	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloropropene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
cis-1,3-Dichloropropene	ug/l	0.44	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
trans-1,3-Dichloropropene	ug/l	0.44	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Ethylbenzene	ug/l	700	ND (0.20)	ND (0.20)	ND (0.20)	0.98 J	51.2	ND (0.20)	ND (0.20)
Hexachlorobutadiene	ug/l	0.86	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Isopropylbenzene	ug/l	66	ND (0.16)	ND (0.16)	ND (0.16)	0.28 J	9	ND (0.16)	ND (0.16)
p-Isopropyltoluene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	4.6	ND (1.0)	ND (1.0)
Methyl Tert Butyl Ether	ug/l	20	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
4-Methyl-2-pentanone(MIBK)	ug/l	630	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Methylene bromide	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Methylene chloride	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	ug/l	0.65	ND (0.39)	0.50 J	ND (0.39)	**1.8 J**	**52.9**	ND (0.39)	ND (0.39)
n-Propylbenzene	ug/l	-	ND (0.17)	ND (0.17)	ND (0.17)	0.58 J	17.2	ND (0.17)	ND (0.17)
Styrene	ug/l	100	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Tert Butyl Alcohol	ug/l	-	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
tert-Amyl Methyl Ether	ug/l	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
tert-Butyl Ethyl Ether	ug/l	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
1,1,2,2-Tetrachloroethane	ug/l	0.053	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
Tetrachloroethene	ug/l	5	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23) [a]	ND (0.23)
Toluene	ug/l	1000	ND (0.23)	ND (0.23)	ND (0.23)	0.74 J	37.1	ND (0.23)	ND (0.23)
1,2,3-Trichlorobenzene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,2,4-Trichlorobenzene	ug/l	70	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	200	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)

Client Sample ID:		MD Cleanup Standards - Groundwater Type I and II Aquifers (MDE 6/2008)	SB-1-GW	SB-2-GW	SB-3-GW	SB-4-GW	SB-5-GW	SB-6-GW	SB-7-GW
Lab Sample ID:			**JC26620-1**	**JC26620-2**	**JC26620-3**	**JC26620-4**	**JC26620-5**	**JC26620-6**	**JC26620-7**
Date Sampled:			**8/25/2016**	**8/25/2016**	**8/25/2016**	**8/25/2016**	**8/25/2016**	**8/25/2016**	**8/25/2016**
Matrix:			**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**
1,1,2-Trichloroethane	ug/l	5	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Trichloroethene	ug/l	5	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ug/l	-	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
1,2,3-Trichloropropane	ug/l	-	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)
1,2,4-Trimethylbenzene	ug/l	-	ND (0.26)	3.8	ND (0.26)	5.6	154	ND (0.26)	ND (0.26)
1,3,5-Trimethylbenzene	ug/l	-	ND (0.32)	2.1	ND (0.32)	1.8 J	43.1	ND (0.32)	ND (0.32)
Vinyl chloride	ug/l	2	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
m,p-Xylene	ug/l	10000	ND (0.42)	ND (0.42)	ND (0.42)	3.3	140	ND (0.42)	ND (0.42)
o-Xylene	ug/l	10000	ND (0.21)	0.21 J	ND (0.21)	2.7	133	ND (0.21)	ND (0.21)
Xylene (total)	ug/l	10000	ND (0.21)	0.21 J	ND (0.21)	6	273	ND (0.21)	ND (0.21)
GC Semi-volatiles (SW846 8015C)									
TPH-DRO (C10-C28)	mg/l	0.047	ND (0.064)	**0.513**	ND (0.064)	**0.217**	**1.76**	ND (0.064)	ND (0.064)

Client Sample ID:		MD Cleanup Standards - Groundwater Type I and II Aquifers (MDE 6/2008)	SB-8-GW	SB-9-GW	SB-10-GW	MW-1-GW	MW-2-GW	MW-3-GW
Lab Sample ID:			JC26620-8	JC26620-9	JC26620-10	JC26620-11	JC26620-12	JC26620-13
Date Sampled:			8/25/2016	8/25/2016	8/25/2016	8/26/2016	8/26/2016	8/26/2016
Matrix:			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846 8260C)								
Acetone	ug/l	550	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Benzene	ug/l	5	0.28 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Bromobenzene	ug/l	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Bromochloromethane	ug/l	-	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
Bromodichloromethane	ug/l	80	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Bromoform	ug/l	80	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Bromomethane	ug/l	0.85	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
2-Butanone (MEK)	ug/l	700	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
n-Butylbenzene	ug/l	-	5.6	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
sec-Butylbenzene	ug/l	-	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
tert-Butylbenzene	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Carbon tetrachloride	ug/l	5	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Chlorobenzene	ug/l	100	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloroethane	ug/l	3.6	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
Chloroform	ug/l	80	3.5	0.90 J	1.1	2.5	0.25 J	ND (0.23)
Chloromethane	ug/l	19	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)
o-Chlorotoluene	ug/l	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
p-Chlorotoluene	ug/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Di-Isopropyl ether	ug/l	-	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
1,2-Dibromo-3-chloropropane	ug/l	0.2	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
Dibromochloromethane	ug/l	80	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2-Dibromoethane	ug/l	0.05	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dichlorobenzene	ug/l	600	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,3-Dichlorobenzene	ug/l	1.8	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,4-Dichlorobenzene	ug/l	75	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Dichlorodifluoromethane	ug/l	-	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)
1,1-Dichloroethane	ug/l	90	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloroethane	ug/l	5	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
1,1-Dichloroethene	ug/l	7	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
cis-1,2-Dichloroethene	ug/l	70	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
trans-1,2-Dichloroethene	ug/l	100	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,2-Dichloropropane	ug/l	5	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
1,3-Dichloropropane	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
2,2-Dichloropropane	ug/l	-	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloropropene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
cis-1,3-Dichloropropene	ug/l	0.44	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
trans-1,3-Dichloropropene	ug/l	0.44	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Ethylbenzene	ug/l	700	18.6	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Hexachlorobutadiene	ug/l	0.86	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Isopropylbenzene	ug/l	66	5.7	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
p-Isopropyltoluene	ug/l	-	4.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Methyl Tert Butyl Ether	ug/l	20	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
4-Methyl-2-pentanone(MIBK)	ug/l	630	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Methylene bromide	ug/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Methylene chloride	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	ug/l	0.65	**24.1**	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
n-Propylbenzene	ug/l	-	12.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

Client Sample ID:		MD Cleanup Standards - Groundwater Type I and II Aquifers (MDE 6/2008)	SB-8-GW	SB-9-GW	SB-10-GW	MW-1-GW	MW-2-GW	MW-3-GW
Lab Sample ID:			JC26620-8	JC26620-9	JC26620-10	JC26620-11	JC26620-12	JC26620-13
Date Sampled:			8/25/2016	8/25/2016	8/25/2016	8/26/2016	8/26/2016	8/26/2016
Matrix:			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Styrene	ug/l	100	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Tert Butyl Alcohol	ug/l	-	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
tert-Amyl Methyl Ether	ug/l	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
tert-Butyl Ethyl Ether	ug/l	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
1,1,2,2-Tetrachloroethane	ug/l	0.053	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
Tetrachloroethene	ug/l	5	ND (0.23)	ND (0.23) [a]	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Toluene	ug/l	1000	7.8	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2,3-Trichlorobenzene	ug/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,2,4-Trichlorobenzene	ug/l	70	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	200	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,1,2-Trichloroethane	ug/l	5	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Trichloroethene	ug/l	5	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ug/l	-	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
1,2,3-Trichloropropane	ug/l	-	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)	ND (0.75)
1,2,4-Trimethylbenzene	ug/l	-	104	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
1,3,5-Trimethylbenzene	ug/l	-	32.3	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/l	2	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
m,p-Xylene	ug/l	10000	74.8	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
o-Xylene	ug/l	10000	51	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Xylene (total)	ug/l	10000	126	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
GC Semi-volatiles (SW846 8015C)								
TPH-DRO (C10-C28)	mg/l	0.047	**5.47**	ND (0.064)	ND (0.064)	**0.164**	ND (0.064)	ND (0.064)

Footnotes:

[a] This compound in BS is outside in house QC limits bias high.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. SGS Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

8 results exceeded regulatory criteria.

Apex Companies, LLC		Table 4 - Storm Drain Water Sample Results	
Project:	**North Point Government Facility, 7701 Wise Avenue, Dundalk, MD**		
Project Number:	**AMORT-004**		
	Legend:	Hit	**Exceed**
Client Sample ID:		**SW-MANHOLE**	**SW-OUTFALL**
Lab Sample ID:		**JC25922-1**	**JC25922-2**
Date Sampled:		**8/12/2016**	**8/12/2016**
Matrix:		**Surface Water**	**Surface Water**
GC/MS Volatiles (SW846 8260C)			
Acetone	ug/l	4.2 J	ND (3.8)
Benzene	ug/l	ND (0.14)	ND (0.14)
Bromobenzene	ug/l	ND (0.22)	ND (0.22)
Bromochloromethane	ug/l	ND (0.46)	ND (0.46)
Bromodichloromethane	ug/l	ND (0.55)	ND (0.55)
Bromoform	ug/l	ND (0.34)	ND (0.34)
Bromomethane	ug/l	ND (0.46)	ND (0.46)
2-Butanone (MEK)	ug/l	ND (1.9)	ND (1.9)
n-Butylbenzene	ug/l	ND (0.28)	ND (0.28)
sec-Butylbenzene	ug/l	ND (1.0)	ND (1.0)
tert-Butylbenzene	ug/l	ND (0.28)	ND (0.28)
Carbon tetrachloride	ug/l	ND (0.54)	ND (0.54)
Chlorobenzene	ug/l	ND (0.17)	ND (0.17)
Chloroethane	ug/l	ND (0.44)	ND (0.44)
Chloroform	ug/l	ND (0.23)	ND (0.23)
Chloromethane	ug/l	ND (0.96)	ND (0.96)
o-Chlorotoluene	ug/l	ND (0.18)	ND (0.18)
p-Chlorotoluene	ug/l	ND (0.29)	ND (0.29)
Di-Isopropyl ether	ug/l	ND (0.41)	ND (0.41)
1,2-Dibromo-3-chloropropane	ug/l	ND (0.69)	ND (0.69)
Dibromochloromethane	ug/l	ND (0.23)	ND (0.23)
1,2-Dibromoethane	ug/l	ND (0.22)	ND (0.22)
1,2-Dichlorobenzene	ug/l	ND (0.23)	ND (0.23)
1,3-Dichlorobenzene	ug/l	ND (0.19)	ND (0.19)
1,4-Dichlorobenzene	ug/l	ND (0.21)	ND (0.21)
Dichlorodifluoromethane	ug/l	ND (0.70)	ND (0.70)
1,1-Dichloroethane	ug/l	ND (0.21)	ND (0.21)
1,2-Dichloroethane	ug/l	ND (0.39)	ND (0.39)
1,1-Dichloroethene	ug/l	ND (0.20)	ND (0.20)
cis-1,2-Dichloroethene	ug/l	ND (0.31)	ND (0.31)
trans-1,2-Dichloroethene	ug/l	ND (0.36)	ND (0.36)
1,2-Dichloropropane	ug/l	ND (0.33)	ND (0.33)
1,3-Dichloropropane	ug/l	ND (0.28)	ND (0.28)
2,2-Dichloropropane	ug/l	ND (0.42)	ND (0.42)
1,1-Dichloropropene	ug/l	ND (0.20)	ND (0.20)
cis-1,3-Dichloropropene	ug/l	ND (0.19)	ND (0.19)
trans-1,3-Dichloropropene	ug/l	ND (0.26)	ND (0.26)
Ethylbenzene	ug/l	ND (0.20)	ND (0.20)
Hexachlorobutadiene	ug/l	ND (0.22)	ND (0.22)
Isopropylbenzene	ug/l	ND (0.16)	ND (0.16)
p-Isopropyltoluene	ug/l	ND (1.0)	ND (1.0)
Methyl Tert Butyl Ether	ug/l	ND (0.34)	ND (0.34)
4-Methyl-2-pentanone(MIBK)	ug/l	ND (1.2)	ND (1.2)
Methylene bromide	ug/l	ND (0.28)	ND (0.28)
Methylene chloride	ug/l	ND (0.35)	ND (0.35)
Naphthalene	ug/l	ND (0.39)	ND (0.39)
n-Propylbenzene	ug/l	ND (0.17)	ND (0.17)
Styrene	ug/l	ND (0.27)	ND (0.27)
Tert Butyl Alcohol	ug/l	ND (3.0)	ND (3.0)
tert-Amyl Methyl Ether	ug/l	ND (0.23)	ND (0.23)
tert-Butyl Ethyl Ether	ug/l	ND (0.23)	ND (0.23)
1,1,1,2-Tetrachloroethane	ug/l	ND (0.17)	ND (0.17)
1,1,2,2-Tetrachloroethane	ug/l	ND (0.39)	ND (0.39)

Client Sample ID:		SW-MANHOLE	SW-OUTFALL
Lab Sample ID:		**JC25922-1**	**JC25922-2**
Date Sampled:		**8/12/2016**	**8/12/2016**
Matrix:		**Surface Water**	**Surface Water**
Tetrachloroethene	ug/l	ND (0.23)	ND (0.23)
Toluene	ug/l	ND (0.23)	ND (0.23)
1,2,3-Trichlorobenzene	ug/l	ND (0.20)	ND (0.20)
1,2,4-Trichlorobenzene	ug/l	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	ND (0.22)	ND (0.22)
1,1,2-Trichloroethane	ug/l	ND (0.28)	ND (0.28)
Trichloroethene	ug/l	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ug/l	ND (0.58)	ND (0.58)
1,2,3-Trichloropropane	ug/l	ND (0.75)	ND (0.75)
1,2,4-Trimethylbenzene	ug/l	ND (0.26)	ND (0.26)
1,3,5-Trimethylbenzene	ug/l	ND (0.32)	ND (0.32)
Vinyl chloride	ug/l	ND (0.33)	ND (0.33)
m,p-Xylene	ug/l	ND (0.42)	ND (0.42)
o-Xylene	ug/l	ND (0.21)	ND (0.21)
Xylene (total)	ug/l	ND (0.21)	ND (0.21)
GC Semi-volatiles (SW846 8015C)			
TPH-DRO (C10-C28)	mg/l	**0.169**	ND (0.058)

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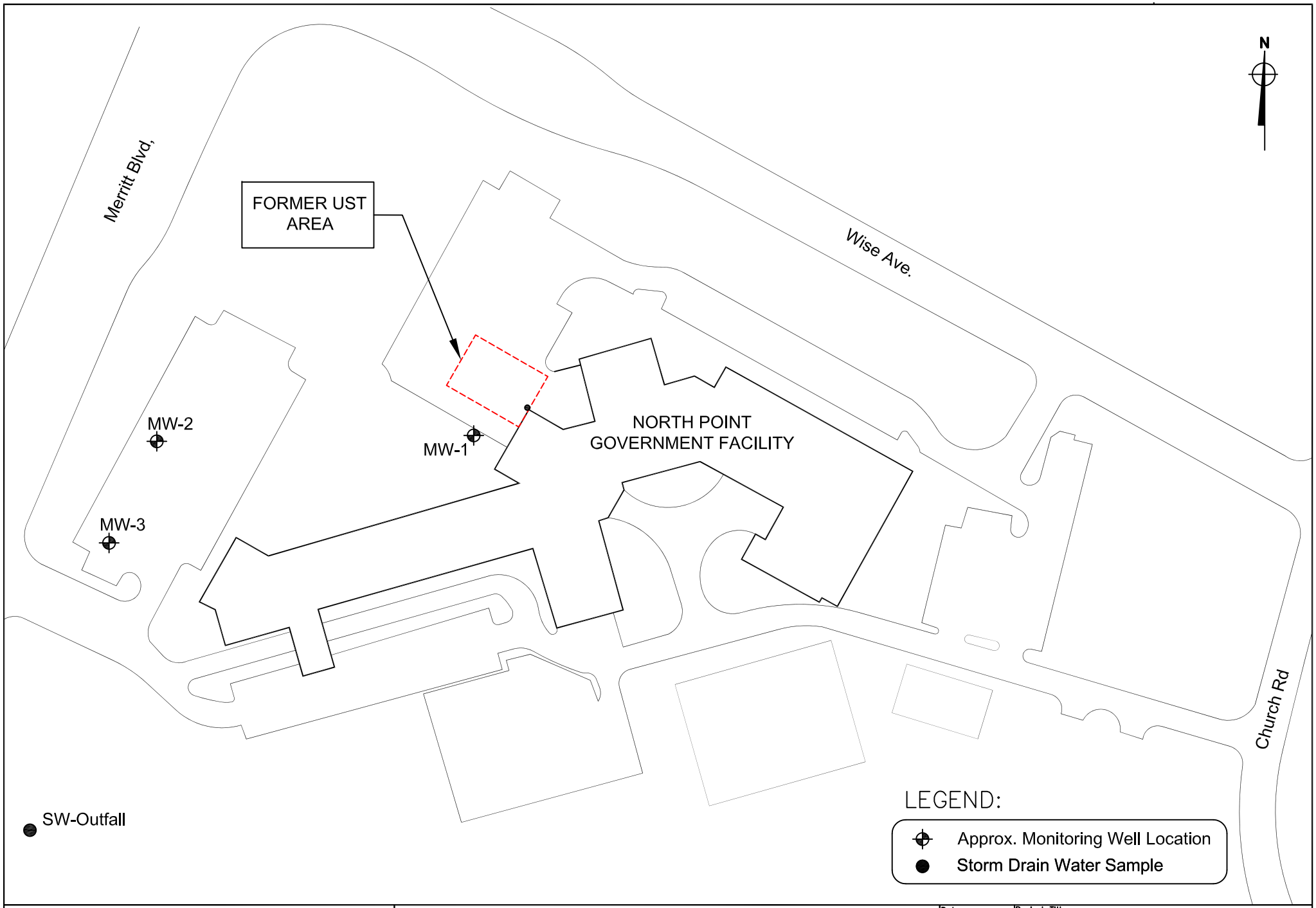
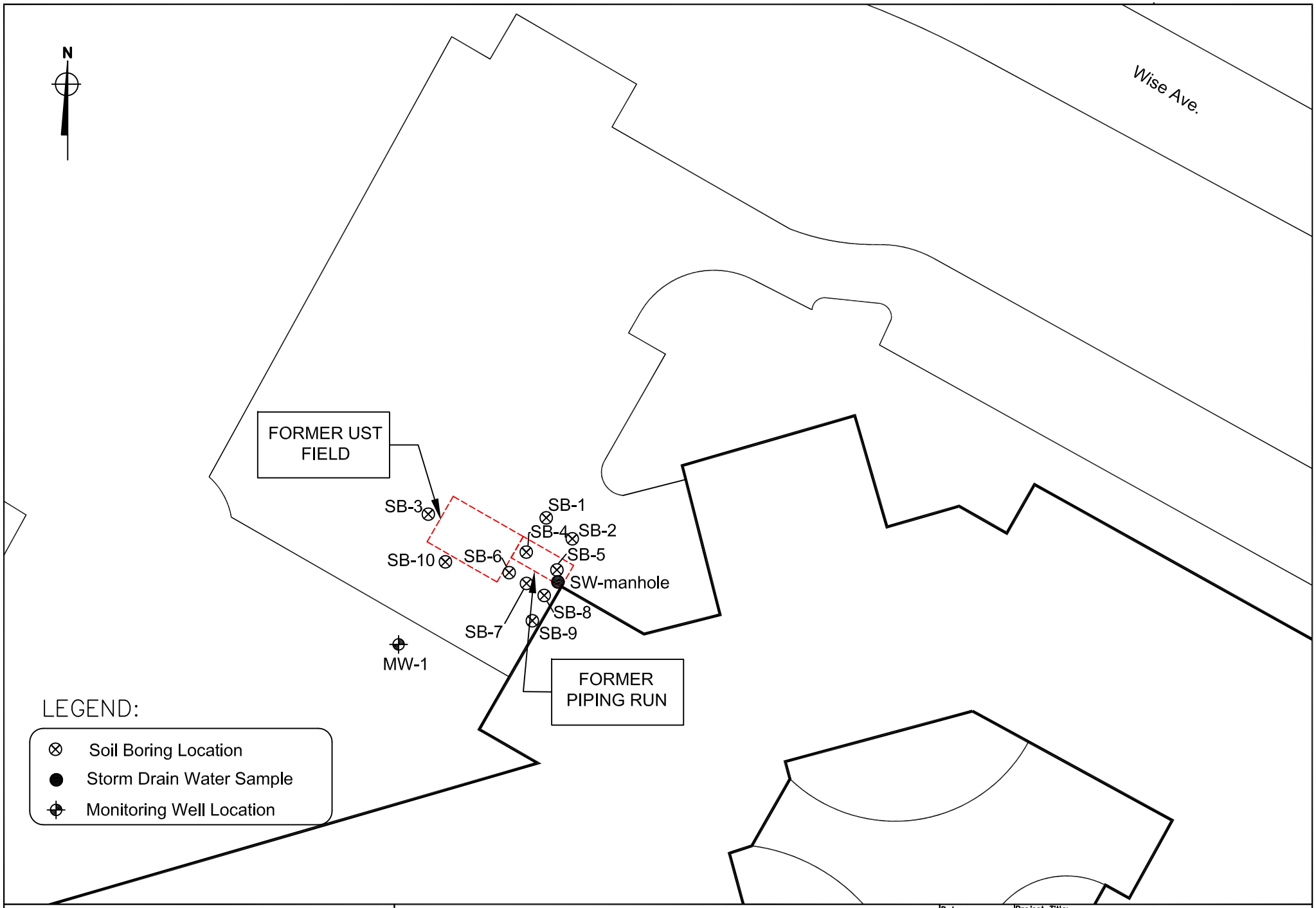
1 result exceeded regulatory criteria.



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 1
SITE LAYOUT

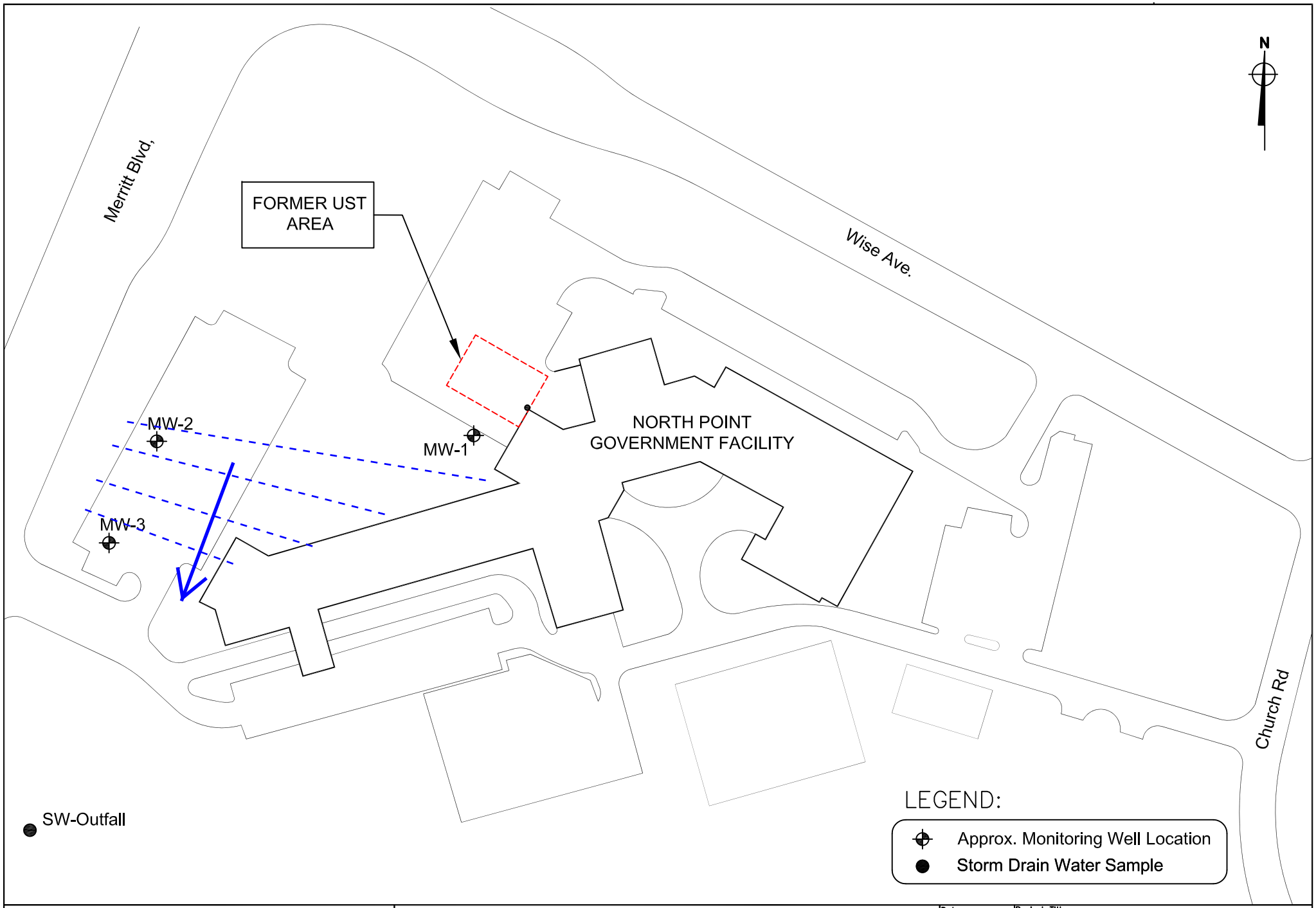
Date: 8-29-16	Project Title: NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD		
Drawn By: MJO			
Project Number: AMORT-004	CAD File: AMORT-004	Approx. Scale: 1"=120'	Client: A MORTON THOMAS



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 2
PROPOSED SAMPLE LOCATIONS

Date: 8-29-16	Project Title: NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD
Drawn By: MJO	
Project Number: AMORT-004	CAD File: AMORT-004
Approx. Scale: 1"=50'	Client: A MORTON THOMAS



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 3
GROUNDWATER CONTOUR MAP

Date: 8-29-16	Project Title: NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD
Drawn By: MJO	
Project Number: AMORT-004	CAD File: AMORT-004
Approx. Scale: 1"=120'	Client: A MORTON THOMAS

ATTACHMENT 1

Work Plan for Site Assessment and

MDE Work Plan Approval Letter

Maryland
Department of
the Environment

Larry Hogan
Governor

Boyd Rutherford
Lieutenant Governor

Ben Grumbles
Secretary

July 21, 2016

Mr. John Messler
Budget and Finance, Property Management
Baltimore County Government
12200-A Long Green Pike
Glenarm MD 21057

RE: WORK PLAN APPROVAL
Case No. 2016-0467-BA
North Point Government Facility
7701 Wise Avenue, Dundalk
Baltimore County, Maryland
Facility I.D. No. 3893

Dear Mr. Messler:

The Maryland Department of the Environment's (the Department) Oil Control Program recently completed a review of the case file for the above-referenced property, including the *Work Plan for Site Assessment*, dated June 16, 2016. The *Work Plan* was submitted in response to the Department's May 18, 2016 written requirements for assessment around the area of the removed product piping where petroleum impacts above Department cleanup standards were documented, information pertaining to the three on-site monitoring wells, storm drain inspection, and sampling of the storm drain manway at the former product piping area and the storm water outfall impacted from the initial release.

The *Work Plan* details a proposal to perform a direct push subsurface investigation by advancing up to ten soil borings around the former piping area and underground storage tank (UST) field to the depth of groundwater or 30 feet, whichever comes first. Soils exhibiting the highest field photo ionization detector (PID) reading or at the capillary fringe, if no elevated PID readings are detected, will be collected for laboratory analysis. Temporary 1-inch diameter well points will be installed in three borings if groundwater is encountered. Soil and groundwater samples will be collected and the temporary well points will be abandoned. Samples collected will be analyzed for total petroleum hydrocarbons - diesel range organics (TPH-DRO) using EPA Method 8015 and polynuclear aromatic hydrocarbons (PAH) using EPA Method 8270. Select samples are proposed to be analyzed for methyl tertiary-butyl ether (MTBE) using EPA 8260. In addition, the on-site monitoring wells will be redeveloped via surge and purge techniques and subsequently sampled via low-flow technology and analyzed as noted above. The storm drain manways and outfall will be inspected, as previously required by the Department, and samples will be collected from the manway at the piping area and outfall area and analyzed for TPH DRO using EPA Method 8015M.

The *Work Plan* is hereby approved for immediate implementation contingent upon the following modifications / requirements:

1. All soil and groundwater samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene, using EPA Method 8260 and for TPH-DRO using

EPA Method 8015. If groundwater is encountered, all boring must be advanced at least 8 feet into groundwater or until the vertical limits of impacted are documented. All borings must be converted to temporary well points using 10 to 20-ft well screens to properly screen across the water table. The must be left in place for at least two weeks to monitor for the presence of liquid phase hydrocarbons (LPH). If no LPH are detected after a two-week period, groundwater samples will be collected and the well points properly abandoned. Please note that the well points must be constructed to eliminate any surface runoff from entering them and be protected from traffic and pedestrians.

2. All soil and groundwater must be properly containerized and disposed. All disposal receipts must be submitted with the *Report of Results*.

3. The Department approves the proposal for re-development and sampling of the on-site monitoring wells; however, sampling may not be performed sooner than two weeks after re-development. Samples must be analyzed for full-suite VOCs, including fuel oxygenates and naphthalene, using EPA Method 8260 and for TPH-DRO using EPA Method 8015. Investigations must be performed to determine the well construction details of the wells with findings included in the assessment report. Wells that are screened below the water table may not be useful in evaluating for the presence/absence of LPH.

4. Coordinate a site meeting with the case manager, Ms. Ellen Jackson, to field mark the soil boring locations after subsurface utilities are marked and prior to performing the work.

5. A *Report of Results* must be submitted within 60 days upon completion of all field activities to the: Oil Control Program, Suite 620, 1800 Washington Boulevard, Baltimore, Maryland 21230-1719 (Attn: Ms. Ellen Jackson). Two hardcopies and an electronic copy on a compact disc (CD) must be provided of all future reports.

If you have any questions, please contact the case manager, Ms. Ellen Jackson, at 410-537-3482 (email: ellen.jackson@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

EJ/nln

cc: Mr. Matthew Neigh (Apex Corp., LLC)
Mr. Kevin Koepenick (Baltimore County DEPS)
Mr. Christopher H. Ralston
Ms. Hilary Miller

ATTACHMENT 2

Boring Logs

Soil Boring Log

APEX

Boring No.: **SB-1**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	23.50

Boring Location:
Northwest of former piping run

Date	Depth to product	Depth to water	Product thickness
8/19/16		15.87	
8/26/16		15.89	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		42		0.0		CL		*Asphalt* White fine grain, poorly sorted sand, moist Brown medium grain sandy clay, low plasticity, wet
6, 7, 8, 9, 10		42		0.0		SM		White to brown medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		48		0.0		SM		Same as above
16, 17, 18, 19, 20		48	SB-1-S	0.0		SM		Same as above wet
21, 22, 23		48		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
24, 25, 26, 27, 28, 29, 31, 33, 35								Drilling refusal at 23.5 Set temporary 1-inch well with 10 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-2**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
Northeast of former piping run

Date	Depth to product	Depth to water	Product thickness
8/19/16		16.15	
8/26/16		16.7	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3		36		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
4, 5						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		36		0.0		SM		Light brown medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		48		0.0		SM		Same as above
16, 17, 18, 19, 20		60	SB-2-S	35.6 1.9		SM		Same as above light petroleum odor with light staining wet
21, 22, 23, 24, 25		48		0.0 0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.:	SB-3
North Point Government Center	
Project No.: AMORT-004	

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/12/2016 Date End 8/12/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
West side of former UST field

Date	Depth to product	Depth to water	Product thickness
8/19/16		15.15	
8/26/16		15.13	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1		36		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
2, 3, 4, 5						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		36		0.0		SM		Light brown medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		36	SB-3-S	0.0		SM		Same as above
16, 17, 18, 19, 20		48		0.0		SM		Same as above wet
21, 22, 23, 24, 25		48		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-4**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
West side of former piping run; east of UST field

Date	Depth to product	Depth to water	Product thickness
8/19/16		15.89	
8/26/16		17.79	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		24		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
5, 6						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		36		0.0		SM		Light brown medium grain sand, loose, poorly sorted moist, no odor
10, 11, 12, 13, 14, 15		48		0.0		SM		Same as above grades to a medium to coarse grain sand
15, 16, 17, 18, 19, 20		48	SB-4-S	0.0		SM		Same as above wet
20, 21, 22, 23, 24, 25		60		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
25						CL		White to light gray sandy clay, medium plasticity, hard no odor
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-5**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
East side of former piping run; east of UST field

Date	Depth to product	Depth to water	Product thickness
8/12/16	16.17	17.82	1.65
8/19/16	16.09	16.16	0.07
8/26/16	16.94	18.45	1.51

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4		36		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
5						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		24		0.0		SM		Light brown to white medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		48		0.0		SM		Same as above grades to a medium to coarse grain sand
16, 17, 18, 19, 20		48	SB-5-S	97.8 6.2		SM		Same as above light stianing and petroleum odor wet
21, 22, 23, 24, 25		48		0.0 0.0		SW-SM CL		White to brown coarse grain sand, well sorted, small gravels Light gray to red sandy clay, medium plasticity, hard no odor
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-6**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
Southwest of former piping run

Date	Depth to product	Depth to water	Product thickness
8/19/16		16.19	
8/26/16		16.04	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		36		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
6						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
7, 8, 9, 10		36		0.0		SM		Light brown to white medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		54		0.0		SM		Same as above grades to a medium to coarse grain sand
16, 17, 18, 19, 20		54	SB-6-S	0.0		SM		Same as above wet
21, 22, 23, 24, 25		60		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-7**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
South of former piping run

Date	Depth to product	Depth to water	Product thickness
8/19/16		16.32	
8/26/16		16.3	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		48		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
								Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		48		0.0		SC SM		Light brown to white medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		36	SB-7-S	0.0		SM		Same as above grades to a medium to coarse grain sand
16, 17, 18, 19, 20		36		0.0		SM		Same as above wet
21, 22, 23, 24, 25		60		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.: **SB-8**

North Point Government Center

Project No.: AMORT-004

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/11/2016 Date End 8/11/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
Southeast of former piping run

Date	Depth to product	Depth to water	Product thickness
8/12/16	16.28	16.65	0.37
8/19/16	16.29	16.29	<0.01
8/26/16	16.28	16.3	0.02

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		24		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
5, 6, 7, 8, 9, 10		48	SB-8-S-1	162.0		SC SM		Brown fine grain sand, poorly sorted, hard, moist, no odor light sewer odor Light brown to white medium grain sand, loose, poorly sorted moist, no odor
10, 11, 12, 13, 14, 15		48		135.2 155		SM		Same as above grades to a medium to coarse grain sand light petroleum odor
15, 16, 17, 18, 19, 20		48	SB-8-S-2	175 33.0		SM		Same as above - light petroleum odor and light staining wet
20, 21, 22, 23, 24, 25		60		0.0 0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
25, 26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/12/2016 Date End 8/12/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
South of onsite AST

Boring No.: **SB-9**
North Point Government Center
Project No.: AMORT-004

Date	Depth to product	Depth to water	Product thickness
8/19/16		16.76	
8/26/16		17.5	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3, 4, 5		24		0.0		CL SC		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		36		0.0		SM		Ligh brown to white medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		36		0.0		SM		Same as above grades to a medium to coarse grain sand
16, 17, 18, 19, 20		48	SB-9-S	0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels wet
21, 22, 23, 24, 25		60		0.0		SW-SM		
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

Soil Boring Log

APEX

Boring No.:	**SB-10**
North Point Government Center	
Project No.: AMORT-004	

Client	A. Morton Thomas
Location	Dundalk, MD
Drill Method	Track-mounted GeoProbe
Operator	Green Services Inc
Date Start	8/12/2016 Date End 8/12/16
Apex Geologist	Todd Passmore
Total Depth	25.00

Boring Location:
South side of former UST field

Date	Depth to product	Depth to water	Product thickness
8/19/16		15.88	
8/26/16		16.12	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	PID (ppm)	Water Table	USCS	Lithology	Description
1, 2, 3		36		0.0		CL		*Asphalt* White medium grain sandy clay, low plasticity with red sand lenses, small gravel, dry
4, 5						SC		Brown fine grain sand, poorly sorted, hard, moist, no odor
6, 7, 8, 9, 10		36		0.0		SM		Light brown medium grain sand, loose, poorly sorted moist, no odor
11, 12, 13, 14, 15		36	SB-10-S	0.0		SM		Same as above grades to a medium to coarse grain sand
16, 17, 18, 19, 20		36		0.0		SM		Same as above wet
21, 22, 23, 24, 25		60		0.0		SW-SM		White to brown coarse grain sand, well sorted, small gravels
26, 27, 28, 29, 31, 33, 35								End boring at 25 feet Set temporary 1-inch well with 15 feet of screen

REMARKS: Field Screen method / instrument: Minirae 2000 PID, 10.6 eV lamp calibrated to 100 ppm isobutylene in air.

ATTACHMENT 3

Laboratory Analytical Results and Chain of Custody

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Companies, LLC

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-004

SGS Accutest Job Number: JC26620

Sampling Dates: 08/25/16 - 08/26/16

Report to:

Apex Companies, LLC
15850 Crabbs Branch Way
Rockville, MD 20855
TPassmore@Apexcos.com

ATTN: Todd Passmore

Total number of pages in report: 99

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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SGS Accutest

Sample Summary

Apex Companies, LLC

Job No: JC26620

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Project No: AMORT-004

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC26620-1	08/25/16	12:20	RW	08/26/16	AQ	Ground Water	SB-1-GW
JC26620-2	08/25/16	11:30	RW	08/26/16	AQ	Ground Water	SB-2-GW
JC26620-3	08/25/16	14:15	RW	08/26/16	AQ	Ground Water	SB-3-GW
JC26620-4	08/25/16	12:50	RW	08/26/16	AQ	Ground Water	SB-4-GW
JC26620-5	08/25/16	11:00	RW	08/26/16	AQ	Ground Water	SB-5-GW
JC26620-6	08/25/16	13:10	RW	08/26/16	AQ	Ground Water	SB-6-GW
JC26620-7	08/25/16	09:00	RW	08/26/16	AQ	Ground Water	SB-7-GW
JC26620-8	08/25/16	10:20	RW	08/26/16	AQ	Ground Water	SB-8-GW
JC26620-9	08/25/16	09:30	RW	08/26/16	AQ	Ground Water	SB-9-GW
JC26620-10	08/25/16	13:30	RW	08/26/16	AQ	Ground Water	SB-10-GW
JC26620-11	08/26/16	14:40	RW	08/26/16	AQ	Ground Water	MW-1-GW
JC26620-12	08/26/16	08:00	RW	08/26/16	AQ	Ground Water	MW-2-GW
JC26620-13	08/26/16	08:35	RW	08/26/16	AQ	Ground Water	MW-3-GW

2

Summary of Hits

Job Number: JC26620
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/25/16 thru 08/26/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC26620-1	**SB-1-GW**					
Chloroform		5.4	1.0	0.23	ug/l	SW846 8260C
JC26620-2	**SB-2-GW**					
Chloroform		5.5	1.0	0.23	ug/l	SW846 8260C
Naphthalene		0.50 J	5.0	0.39	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		3.8	2.0	0.26	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		2.1	2.0	0.32	ug/l	SW846 8260C
o-Xylene		0.21 J	1.0	0.21	ug/l	SW846 8260C
Xylene (total)		0.21 J	1.0	0.21	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.513	0.083	0.064	mg/l	SW846 8015C
JC26620-3	**SB-3-GW**					
Chloroform		1.6	1.0	0.23	ug/l	SW846 8260C
JC26620-4	**SB-4-GW**					
n-Butylbenzene		0.50 J	2.0	0.28	ug/l	SW846 8260C
Chloroform		4.4	1.0	0.23	ug/l	SW846 8260C
Ethylbenzene		0.98 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		0.28 J	1.0	0.16	ug/l	SW846 8260C
Naphthalene		1.8 J	5.0	0.39	ug/l	SW846 8260C
n-Propylbenzene		0.58 J	2.0	0.17	ug/l	SW846 8260C
Toluene		0.74 J	1.0	0.23	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		5.6	2.0	0.26	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		1.8 J	2.0	0.32	ug/l	SW846 8260C
m,p-Xylene		3.3	1.0	0.42	ug/l	SW846 8260C
o-Xylene		2.7	1.0	0.21	ug/l	SW846 8260C
Xylene (total)		6.0	1.0	0.21	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.217	0.083	0.064	mg/l	SW846 8015C
JC26620-5	**SB-5-GW**					
Benzene		2.2	0.50	0.14	ug/l	SW846 8260C
n-Butylbenzene		5.5	2.0	0.28	ug/l	SW846 8260C
sec-Butylbenzene		5.2	2.0	1.0	ug/l	SW846 8260C
Chloroform		8.8	1.0	0.23	ug/l	SW846 8260C
Ethylbenzene		51.2	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		9.0	1.0	0.16	ug/l	SW846 8260C
p-Isopropyltoluene		4.6	2.0	1.0	ug/l	SW846 8260C
Naphthalene		52.9	5.0	0.39	ug/l	SW846 8260C
n-Propylbenzene		17.2	2.0	0.17	ug/l	SW846 8260C

Summary of Hits

Job Number: JC26620
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/25/16 thru 08/26/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		37.1	1.0	0.23	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		154	2.0	0.26	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		43.1	2.0	0.32	ug/l	SW846 8260C
m,p-Xylene		140	1.0	0.42	ug/l	SW846 8260C
o-Xylene		133	1.0	0.21	ug/l	SW846 8260C
Xylene (total)		273	1.0	0.21	ug/l	SW846 8260C
TPH-DRO (C10-C28)		1.76	0.083	0.064	mg/l	SW846 8015C
JC26620-6	**SB-6-GW**					
Chloroform		0.46 J	1.0	0.23	ug/l	SW846 8260C
JC26620-7	**SB-7-GW**					
Chloroform		0.70 J	1.0	0.23	ug/l	SW846 8260C
JC26620-8	**SB-8-GW**					
Benzene		0.28 J	0.50	0.14	ug/l	SW846 8260C
n-Butylbenzene		5.6	2.0	0.28	ug/l	SW846 8260C
sec-Butylbenzene		5.0	2.0	1.0	ug/l	SW846 8260C
Chloroform		3.5	1.0	0.23	ug/l	SW846 8260C
Ethylbenzene		18.6	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		5.7	1.0	0.16	ug/l	SW846 8260C
p-Isopropyltoluene		4.6	2.0	1.0	ug/l	SW846 8260C
Naphthalene		24.1	5.0	0.39	ug/l	SW846 8260C
n-Propylbenzene		12.3	2.0	0.17	ug/l	SW846 8260C
Toluene		7.8	1.0	0.23	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		104	2.0	0.26	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		32.3	2.0	0.32	ug/l	SW846 8260C
m,p-Xylene		74.8	1.0	0.42	ug/l	SW846 8260C
o-Xylene		51.0	1.0	0.21	ug/l	SW846 8260C
Xylene (total)		126	1.0	0.21	ug/l	SW846 8260C
TPH-DRO (C10-C28)		5.47	0.083	0.064	mg/l	SW846 8015C
JC26620-9	**SB-9-GW**					
Chloroform		0.90 J	1.0	0.23	ug/l	SW846 8260C
JC26620-10	**SB-10-GW**					
Chloroform		1.1	1.0	0.23	ug/l	SW846 8260C

Summary of Hits

Job Number: JC26620
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/25/16 thru 08/26/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC26620-11	**MW-1-GW**					
Chloroform		2.5	1.0	0.23	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.164	0.083	0.064	mg/l	SW846 8015C
JC26620-12	**MW-2-GW**					
Chloroform		0.25 J	1.0	0.23	ug/l	SW846 8260C
JC26620-13	**MW-3-GW**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-1-GW		
Lab Sample ID:	JC26620-1	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170799.D	1	08/30/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	5.4	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-GW		
Lab Sample ID:	JC26620-1	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-GW		
Lab Sample ID:	JC26620-1	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-GW		
Lab Sample ID:	JC26620-1	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79192.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	71%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-GW		
Lab Sample ID:	JC26620-2	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170800.D	1	08/30/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	5.5	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-GW		
Lab Sample ID:	JC26620-2	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	0.50	5.0	0.39	ug/l	J
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	3.8	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	2.1	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	0.21	1.0	0.21	ug/l	J
1330-20-7	Xylene (total)	0.21	1.0	0.21	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-GW		
Lab Sample ID:	JC26620-2	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-GW		
Lab Sample ID:	JC26620-2	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79193.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.513	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		36-144%
16416-32-3	Tetracosane-d50	68%		32-138%
438-22-2	5a-Androstane	60%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-GW		
Lab Sample ID:	JC26620-3	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170801.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	1.6	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-GW		
Lab Sample ID:	JC26620-3	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-GW		
Lab Sample ID:	JC26620-3	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-GW		
Lab Sample ID:	JC26620-3	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79194.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		36-144%
16416-32-3	Tetracosane-d50	104%		32-138%
438-22-2	5a-Androstane	98%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-GW		
Lab Sample ID:	JC26620-4	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170802.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	0.50	2.0	0.28	ug/l	J
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	4.4	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-GW		
Lab Sample ID:	JC26620-4	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	0.98	1.0	0.20	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	0.28	1.0	0.16	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	1.8	5.0	0.39	ug/l	J
103-65-1	n-Propylbenzene	0.58	2.0	0.17	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	0.74	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.6	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.8	2.0	0.32	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	3.3	1.0	0.42	ug/l	
95-47-6	o-Xylene	2.7	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	6.0	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-GW		
Lab Sample ID:	JC26620-4	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-GW		
Lab Sample ID:	JC26620-4	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79199.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.217	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		36-144%
16416-32-3	Tetracosane-d50	40%		32-138%
438-22-2	5a-Androstane	36%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-GW		
Lab Sample ID:	JC26620-5	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170803.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	2.2	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	5.5	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	5.2	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	8.8	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-GW		
Lab Sample ID:	JC26620-5	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	51.2	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	9.0	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	4.6	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	52.9	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	17.2	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	37.1	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	154	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	43.1	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	140	1.0	0.42	ug/l	
95-47-6	o-Xylene	133	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	273	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-GW		
Lab Sample ID:	JC26620-5	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-GW		
Lab Sample ID:	JC26620-5	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79200.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1.76	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		36-144%
16416-32-3	Tetracosane-d50	54%		32-138%
438-22-2	5a-Androstane	48%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-GW		
Lab Sample ID:	JC26620-6	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170826.D	1	08/31/16	TK	n/a	n/a	V2A7240
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	0.46	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-GW		
Lab Sample ID:	JC26620-6	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene [a]	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-GW		
Lab Sample ID:	JC26620-6	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

(a) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-GW		
Lab Sample ID:	JC26620-6	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79201.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		36-144%
16416-32-3	Tetracosane-d50	52%		32-138%
438-22-2	5a-Androstane	44%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-GW		
Lab Sample ID:	JC26620-7	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170805.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	0.70	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-GW		
Lab Sample ID:	JC26620-7	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-GW		
Lab Sample ID:	JC26620-7	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-GW		
Lab Sample ID:	JC26620-7	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79202.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		36-144%
16416-32-3	Tetracosane-d50	42%		32-138%
438-22-2	5a-Androstane	39%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-GW		
Lab Sample ID:	JC26620-8	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170806.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	0.28	0.50	0.14	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	5.6	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	5.0	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	3.5	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-GW		
Lab Sample ID:	JC26620-8	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	18.6	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	5.7	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	4.6	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	24.1	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	12.3	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	7.8	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	104	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	32.3	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	74.8	1.0	0.42	ug/l	
95-47-6	o-Xylene	51.0	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	126	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-GW		
Lab Sample ID:	JC26620-8	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-GW		
Lab Sample ID:	JC26620-8	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79203.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	5.47	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		36-144%
16416-32-3	Tetracosane-d50	98%		32-138%
438-22-2	5a-Androstane	88%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-GW		
Lab Sample ID:	JC26620-9	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170827.D	1	08/31/16	TK	n/a	n/a	V2A7240
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	0.90	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-GW		
Lab Sample ID:	JC26620-9	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene [a]	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-GW		
Lab Sample ID:	JC26620-9	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

(a) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-GW		
Lab Sample ID:	JC26620-9	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79204.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	54%		36-144%
16416-32-3	Tetracosane-d50	39%		32-138%
438-22-2	5a-Androstane	37%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-GW		
Lab Sample ID:	JC26620-10	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170808.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	1.1	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-GW		
Lab Sample ID:	JC26620-10	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-GW		
Lab Sample ID:	JC26620-10	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-GW		
Lab Sample ID:	JC26620-10	**Date Sampled:**	08/25/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79205.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		36-144%
16416-32-3	Tetracosane-d50	39%		32-138%
438-22-2	5a-Androstane	36%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-GW		
Lab Sample ID:	JC26620-11	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170809.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	2.5	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-GW		
Lab Sample ID:	JC26620-11	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-GW		
Lab Sample ID:	JC26620-11	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-GW		
Lab Sample ID:	JC26620-11	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79206.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.164	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		36-144%
16416-32-3	Tetracosane-d50	52%		32-138%
438-22-2	5a-Androstane	44%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-GW		
Lab Sample ID:	JC26620-12	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170810.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	0.25	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-GW		
Lab Sample ID:	JC26620-12	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-GW		
Lab Sample ID:	JC26620-12	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-GW		
Lab Sample ID:	JC26620-12	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79207.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		36-144%
16416-32-3	Tetracosane-d50	66%		32-138%
438-22-2	5a-Androstane	61%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3-GW		
Lab Sample ID:	JC26620-13	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A170811.D	1	08/31/16	TK	n/a	n/a	V2A7239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3-GW		
Lab Sample ID:	JC26620-13	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3-GW		
Lab Sample ID:	JC26620-13	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3-GW		
Lab Sample ID:	JC26620-13	**Date Sampled:**	08/26/16
Matrix:	AQ - Ground Water	**Date Received:**	08/26/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y79210.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		36-144%
16416-32-3	Tetracosane-d50	59%		32-138%
438-22-2	5a-Androstane	56%		31-136%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Methylene bromide	74-95-3	**SW846 8260C**	AQ	Accutest is not certified for this parameter.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SGS ACCUTEST GW

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 2 PN

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: JC26620

Client / Reporting Information

Company Name: APEX Companies
Street Address: 15850 Crabbs Branch way
City / State / Zip: Rockville MD 20855
Project Contact / E-mail: Rachel Whitmer rwhitmer@apexcos.com
Phone #: 301·915·5211 Fax #:
Sampler(s) Name(s) / Phone #: Rachel Whitmer 301·915·5211

Project Information

Project Name: North Point Government Facility
Street: 1747 Merit Blvd
City / State: Dundalk MD
Project #: AMORT·004
Client Purchase Order #:
Project Manager: Todd Paysmore

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

	SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI WATER	MEOH	ENCORE	LAB USE ONLY
1	1	SB-1-GW	2345E	8/25/16	12:20	RW	GW	5	3								E24
2	2	SB-2-GW	2345E	↓	11:30	↓	↓	5	3								W1023
3	3	SB-3-GW	2345E		14:15			5	3								
4	4	SB-4-GW	2345E		12:50			5	3								
5	5	SB-5-GW	2345E		11:00			5	3								
6	6	SB-6-GW	2345E		13:10			5	3								
7	7	SB-7-GW	2345E		9:00			5	3								
8	8	SB-8-GW	2345E		10:20			5	3								
9	9	SB-9-GW	2345E		9:30			5	3								
10	10	~~MW-1-GW~~ SB-10-GW	2345E	↓	13:30			5	3								
11	11	~~MW-2-GW~~ MW-1-GW	2345E	8/25/16	1440			5	3								
12	12	~~MW-3-GW~~ MW-2GW	2345E	8/26/16	8:00	↓	↓	5	3								

INITIAL ASESSMENT JB
LABEL VERIFICATION JK

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

2x 300mL DRO @8/26/16

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/29/16 1:00	1	2	8-26-16 1815	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 92-94	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp 3.1/3.6 C

JC26620: Chain of Custody
Page 1 of 4

SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: JC26620

Client / Reporting Information

Company Name: APEX Companies
Street Address: 15350 Crabbs Branch Way
City: Rockville State: MD Zip: 20855
Project Contact: Rachel Wuttmer E-mail: rwuttmer@apexcos.com
Phone #: 301.915.5211 Fax #:
Sampler(s) Name(s): Rachel Wuttmer Phone #: 301.915.5211

Project Information

Project Name: North Point Government Facility
Street: 1747 Merritt Blvd
City: Dundalk State: MD
Project #: NMCRT.004
Client Purchase Order #:
Project Manager: Todd Passmore

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
13 13	MW-3-GW *	23456	8/26/16	8:35	RW	GW	6	6								

Turnaround Time (Business days)

- ✓ Std. 10 Business Days
- 5 Day RUSH
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- NJ Reduced
- Commercial "C"
- NJ Data of Known Quality Protocol Reporting
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

*VOA QC VIAL
• 2x300ml DRO @ 8/26/16

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/26/16 1:00	1		8/26/16	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal	Preserved where applicable	On Ice / Cooler Temp.
5		5	✓ Intact / Not intact		✓

SGS Accutest Sample Receipt Summary

Job Number: JC26620 **Client:** APEX COMPANIES **Project:** North Point Government Facility

Date / Time Received: 8/26/2016 6:15:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4); Cooler 2: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.3); Cooler 2: (4.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments There is no analysis noted on COC. For each sample we rec'd 2x 300ml DRO bottles and 3 HCL preserved VOC vials.

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC26620

CSR: mayur **Response Date:** 8/29/2016

Response: Please login the samples for V8260MDVO, B8015DRO

JC26620: Chain of Custody
Page 4 of 4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB1	2A170796.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB1	2A170796.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB1	2A170796.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	73-122%
2037-26-5	Toluene-D8	102%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-MB	2A170821.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-MB	2A170821.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-MB	2A170821.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	73-122%
2037-26-5	Toluene-D8	102%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.75	73	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB2	2A170817.D	1	08/31/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-2DUP, JC26620-1MS

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB2	2A170817.D	1	08/31/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-2DUP, JC26620-1MS

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-MB2	2A170817.D	1	08/31/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-2DUP, JC26620-1MS

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	73-122%
2037-26-5	Toluene-D8	101%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-BS	2A170797.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	47.1	94	60-143
71-43-2	Benzene	50	53.8	108	79-117
108-86-1	Bromobenzene	50	55.0	110	80-116
74-97-5	Bromochloromethane	50	58.1	116	85-121
75-27-4	Bromodichloromethane	50	55.3	111	82-122
75-25-2	Bromoform	50	53.2	106	78-127
74-83-9	Bromomethane	50	47.9	96	62-141
78-93-3	2-Butanone (MEK)	50	54.3	109	74-132
104-51-8	n-Butylbenzene	50	54.1	108	80-122
135-98-8	sec-Butylbenzene	50	54.9	110	80-121
98-06-6	tert-Butylbenzene	50	55.6	111	79-124
56-23-5	Carbon tetrachloride	50	59.9	120	76-132
108-90-7	Chlorobenzene	50	56.7	113	84-117
75-00-3	Chloroethane	50	49.5	99	69-140
67-66-3	Chloroform	50	56.9	114	82-124
74-87-3	Chloromethane	50	48.6	97	55-129
95-49-8	o-Chlorotoluene	50	54.4	109	81-115
106-43-4	p-Chlorotoluene	50	56.0	112	78-116
108-20-3	Di-Isopropyl ether	50	54.2	108	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	47.3	95	73-123
124-48-1	Dibromochloromethane	50	56.8	114	81-122
106-93-4	1,2-Dibromoethane	50	55.5	111	81-119
95-50-1	1,2-Dichlorobenzene	50	54.4	109	83-116
541-73-1	1,3-Dichlorobenzene	50	54.3	109	81-115
106-46-7	1,4-Dichlorobenzene	50	53.6	107	81-114
75-71-8	Dichlorodifluoromethane	50	46.3	93	45-138
75-34-3	1,1-Dichloroethane	50	57.9	116	79-125
107-06-2	1,2-Dichloroethane	50	58.7	117	77-127
75-35-4	1,1-Dichloroethene	50	58.0	116	71-131
156-59-2	cis-1,2-Dichloroethene	50	54.9	110	75-118
156-60-5	trans-1,2-Dichloroethene	50	57.2	114	75-120
78-87-5	1,2-Dichloropropane	50	55.0	110	79-120
142-28-9	1,3-Dichloropropane	50	55.3	111	80-117
594-20-7	2,2-Dichloropropane	50	49.1	98	62-136
563-58-6	1,1-Dichloropropene	50	55.8	112	84-127
10061-01-5	cis-1,3-Dichloropropene	50	54.5	109	82-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-BS	2A170797.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.7	107	78-120
100-41-4	Ethylbenzene	50	54.2	108	81-116
87-68-3	Hexachlorobutadiene	50	52.8	106	72-127
98-82-8	Isopropylbenzene	50	54.9	110	80-120
99-87-6	p-Isopropyltoluene	50	55.1	110	82-122
1634-04-4	Methyl Tert Butyl Ether	100	106	106	77-120
108-10-1	4-Methyl-2-pentanone(MIBK)	50	55.5	111	77-128
74-95-3	Methylene bromide	50	56.8	114	82-118
75-09-2	Methylene chloride	50	53.8	108	78-122
91-20-3	Naphthalene	50	46.9	94	73-128
103-65-1	n-Propylbenzene	50	57.4	115	81-121
100-42-5	Styrene	50	55.9	112	82-118
75-65-0	Tert Butyl Alcohol	250	276	110	73-130
994-05-8	tert-Amyl Methyl Ether	50	51.9	104	76-125
637-92-3	tert-Butyl Ethyl Ether	50	53.3	107	77-127
630-20-6	1,1,1,2-Tetrachloroethane	50	56.0	112	80-119
79-34-5	1,1,2,2-Tetrachloroethane	50	50.3	101	76-118
127-18-4	Tetrachloroethene	50	61.4	123	73-133
108-88-3	Toluene	50	55.2	110	82-119
87-61-6	1,2,3-Trichlorobenzene	50	44.9	90	75-128
120-82-1	1,2,4-Trichlorobenzene	50	53.3	107	77-129
71-55-6	1,1,1-Trichloroethane	50	61.7	123	81-132
79-00-5	1,1,2-Trichloroethane	50	55.6	111	80-119
79-01-6	Trichloroethene	50	58.3	117	83-119
75-69-4	Trichlorofluoromethane	50	54.7	109	66-137
96-18-4	1,2,3-Trichloropropane	50	54.4	109	78-118
95-63-6	1,2,4-Trimethylbenzene	50	55.4	111	82-120
108-67-8	1,3,5-Trimethylbenzene	50	54.7	109	81-120
75-01-4	Vinyl chloride	50	45.4	91	58-131
	m,p-Xylene	100	113	113	83-117
95-47-6	o-Xylene	50	56.7	113	85-122
1330-20-7	Xylene (total)	150	169	113	84-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7239-BS	2A170797.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	73-122%
2037-26-5	Toluene-D8	100%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-BS	2A170822.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.8	86	60-143
71-43-2	Benzene	50	53.6	107	79-117
108-86-1	Bromobenzene	50	54.0	108	80-116
74-97-5	Bromochloromethane	50	56.0	112	85-121
75-27-4	Bromodichloromethane	50	54.2	108	82-122
75-25-2	Bromoform	50	49.8	100	78-127
74-83-9	Bromomethane	50	52.8	106	62-141
78-93-3	2-Butanone (MEK)	50	53.5	107	74-132
104-51-8	n-Butylbenzene	50	56.1	112	80-122
135-98-8	sec-Butylbenzene	50	56.0	112	80-121
98-06-6	tert-Butylbenzene	50	56.0	112	79-124
56-23-5	Carbon tetrachloride	50	59.5	119	76-132
108-90-7	Chlorobenzene	50	56.0	112	84-117
75-00-3	Chloroethane	50	52.7	105	69-140
67-66-3	Chloroform	50	55.7	111	82-124
74-87-3	Chloromethane	50	51.6	103	55-129
95-49-8	o-Chlorotoluene	50	54.7	109	81-115
106-43-4	p-Chlorotoluene	50	56.3	113	78-116
108-20-3	Di-Isopropyl ether	50	53.4	107	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	46.8	94	73-123
124-48-1	Dibromochloromethane	50	55.1	110	81-122
106-93-4	1,2-Dibromoethane	50	54.9	110	81-119
95-50-1	1,2-Dichlorobenzene	50	53.9	108	83-116
541-73-1	1,3-Dichlorobenzene	50	54.0	108	81-115
106-46-7	1,4-Dichlorobenzene	50	53.9	108	81-114
75-71-8	Dichlorodifluoromethane	50	51.0	102	45-138
75-34-3	1,1-Dichloroethane	50	56.1	112	79-125
107-06-2	1,2-Dichloroethane	50	56.5	113	77-127
75-35-4	1,1-Dichloroethene	50	57.2	114	71-131
156-59-2	cis-1,2-Dichloroethene	50	53.7	107	75-118
156-60-5	trans-1,2-Dichloroethene	50	56.3	113	75-120
78-87-5	1,2-Dichloropropane	50	54.9	110	79-120
142-28-9	1,3-Dichloropropane	50	53.6	107	80-117
594-20-7	2,2-Dichloropropane	50	58.7	117	62-136
563-58-6	1,1-Dichloropropene	50	56.4	113	84-127
10061-01-5	cis-1,3-Dichloropropene	50	54.7	109	82-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-BS	2A170822.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	54.3	109	78-120
100-41-4	Ethylbenzene	50	53.8	108	81-116
87-68-3	Hexachlorobutadiene	50	55.4	111	72-127
98-82-8	Isopropylbenzene	50	55.1	110	80-120
99-87-6	p-Isopropyltoluene	50	55.5	111	82-122
1634-04-4	Methyl Tert Butyl Ether	100	103	103	77-120
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.7	107	77-128
74-95-3	Methylene bromide	50	55.4	111	82-118
75-09-2	Methylene chloride	50	52.5	105	78-122
91-20-3	Naphthalene	50	45.6	91	73-128
103-65-1	n-Propylbenzene	50	58.0	116	81-121
100-42-5	Styrene	50	54.5	109	82-118
75-65-0	Tert Butyl Alcohol	250	275	110	73-130
994-05-8	tert-Amyl Methyl Ether	50	51.8	104	76-125
637-92-3	tert-Butyl Ethyl Ether	50	52.9	106	77-127
630-20-6	1,1,1,2-Tetrachloroethane	50	54.4	109	80-119
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	76-118
127-18-4	Tetrachloroethene	50	67.2	134* [a]	73-133
108-88-3	Toluene	50	55.1	110	82-119
87-61-6	1,2,3-Trichlorobenzene	50	44.6	89	75-128
120-82-1	1,2,4-Trichlorobenzene	50	53.9	108	77-129
71-55-6	1,1,1-Trichloroethane	50	61.1	122	81-132
79-00-5	1,1,2-Trichloroethane	50	54.4	109	80-119
79-01-6	Trichloroethene	50	57.9	116	83-119
75-69-4	Trichlorofluoromethane	50	57.6	115	66-137
96-18-4	1,2,3-Trichloropropane	50	52.4	105	78-118
95-63-6	1,2,4-Trimethylbenzene	50	54.9	110	82-120
108-67-8	1,3,5-Trimethylbenzene	50	54.1	108	81-120
75-01-4	Vinyl chloride	50	54.4	109	58-131
	m,p-Xylene	100	112	112	83-117
95-47-6	o-Xylene	50	56.1	112	85-122
1330-20-7	Xylene (total)	150	168	112	84-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7240-BS	2A170822.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	73-122%
2037-26-5	Toluene-D8	101%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-1MS	2A170819.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-1	2A170799.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	JC26620-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	37.7	75	49-155
71-43-2	Benzene	ND		50	48.7	97	46-141
108-86-1	Bromobenzene	ND		50	52.0	104	75-122
74-97-5	Bromochloromethane	ND		50	51.5	103	80-124
75-27-4	Bromodichloromethane	ND		50	52.3	105	77-125
75-25-2	Bromoform	ND		50	50.8	102	71-129
74-83-9	Bromomethane	ND		50	48.7	97	58-147
78-93-3	2-Butanone (MEK)	ND		50	48.7	97	62-146
104-51-8	n-Butylbenzene	ND		50	57.2	114	68-136
135-98-8	sec-Butylbenzene	ND		50	57.2	114	70-132
98-06-6	tert-Butylbenzene	ND		50	57.0	114	70-133
56-23-5	Carbon tetrachloride	ND		50	57.1	114	67-142
108-90-7	Chlorobenzene	ND		50	54.7	109	76-124
75-00-3	Chloroethane	ND		50	51.2	102	62-150
67-66-3	Chloroform	5.4		50	58.7	107	76-129
74-87-3	Chloromethane	ND		50	49.2	98	51-133
95-49-8	o-Chlorotoluene	ND		50	53.8	108	73-123
106-43-4	p-Chlorotoluene	ND		50	55.2	110	72-123
108-20-3	Di-Isopropyl ether	ND		50	52.7	105	67-131
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.6	91	68-127
124-48-1	Dibromochloromethane	ND		50	53.7	107	76-125
106-93-4	1,2-Dibromoethane	ND		50	51.5	103	75-121
95-50-1	1,2-Dichlorobenzene	ND		50	53.2	106	76-121
541-73-1	1,3-Dichlorobenzene	ND		50	52.6	105	74-121
106-46-7	1,4-Dichlorobenzene	ND		50	52.6	105	74-120
75-71-8	Dichlorodifluoromethane	ND		50	49.2	98	40-149
75-34-3	1,1-Dichloroethane	ND		50	50.4	101	73-131
107-06-2	1,2-Dichloroethane	ND		50	52.2	104	70-132
75-35-4	1,1-Dichloroethene	ND		50	45.9	92	64-140
156-59-2	cis-1,2-Dichloroethene	ND		50	50.1	100	59-131
156-60-5	trans-1,2-Dichloroethene	ND		50	48.8	98	68-127
78-87-5	1,2-Dichloropropane	ND		50	51.7	103	75-124
142-28-9	1,3-Dichloropropane	ND		50	51.0	102	75-119
594-20-7	2,2-Dichloropropane	ND		50	58.0	116	57-145
563-58-6	1,1-Dichloropropene	ND		50	52.5	105	76-137
10061-01-5	cis-1,3-Dichloropropene	ND		50	53.0	106	77-123

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-1MS	2A170819.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-1	2A170799.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	JC26620-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.5	105	73-121
100-41-4	Ethylbenzene	ND		50	53.6	107	46-141
87-68-3	Hexachlorobutadiene	ND		50	58.3	117	60-137
98-82-8	Isopropylbenzene	ND		50	55.2	110	70-129
99-87-6	p-Isopropyltoluene	ND		50	56.9	114	72-132
1634-04-4	Methyl Tert Butyl Ether	ND		100	96.5	97	68-125
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	50.5	101	73-135
74-95-3	Methylene bromide	ND		50	51.4	103	77-121
75-09-2	Methylene chloride	ND		50	44.4	89	73-127
91-20-3	Naphthalene	ND		50	43.8	88	63-139
103-65-1	n-Propylbenzene	ND		50	57.9	116	66-136
100-42-5	Styrene	ND		50	53.7	107	74-126
75-65-0	Tert Butyl Alcohol	ND		250	276	110	68-134
994-05-8	tert-Amyl Methyl Ether	ND		50	50.9	102	72-127
637-92-3	tert-Butyl Ethyl Ether	ND		50	52.0	104	73-128
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	53.7	107	75-123
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	46.4	93	71-121
127-18-4	Tetrachloroethene	ND		50	56.4	113	58-147
108-88-3	Toluene	ND		50	52.9	106	58-137
87-61-6	1,2,3-Trichlorobenzene	ND		50	43.2	86	69-132
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.1	106	71-133
71-55-6	1,1,1-Trichloroethane	ND		50	58.6	117	72-143
79-00-5	1,1,2-Trichloroethane	ND		50	51.8	104	75-122
79-01-6	Trichloroethene	ND		50	54.9	110	63-139
75-69-4	Trichlorofluoromethane	ND		50	62.0	124	57-151
96-18-4	1,2,3-Trichloropropane	ND		50	48.5	97	73-121
95-63-6	1,2,4-Trimethylbenzene	ND		50	54.9	110	50-145
108-67-8	1,3,5-Trimethylbenzene	ND		50	54.2	108	63-135
75-01-4	Vinyl chloride	ND		50	50.0	100	51-141
	m,p-Xylene	ND		100	110	110	46-144
95-47-6	o-Xylene	ND		50	55.1	110	63-137
1330-20-7	Xylene (total)	ND		150	165	110	52-141

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-1MS	2A170819.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-1	2A170799.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Surrogate Recoveries	MS	JC26620-1	Limits
1868-53-7	Dibromofluoromethane	104%	103%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	73-122%
2037-26-5	Toluene-D8	100%	103%	84-119%
460-00-4	4-Bromofluorobenzene	97%	100%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26726-2MS	2A170830.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2MSD	2A170831.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2	2A170824.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	JC26726-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	40.3	81	50	39.7	79	1	49-155/16
71-43-2	Benzene	ND		50	54.7	109	50	53.4	107	2	46-141/20
108-86-1	Bromobenzene	ND		50	54.0	108	50	52.9	106	2	75-122/20
74-97-5	Bromochloromethane	ND		50	55.3	111	50	54.2	108	2	80-124/20
75-27-4	Bromodichloromethane	ND		50	54.3	109	50	53.1	106	2	77-125/20
75-25-2	Bromoform	ND		50	50.0	100	50	49.0	98	2	71-129/20
74-83-9	Bromomethane	ND		50	45.6	91	50	46.7	93	2	58-147/14
78-93-3	2-Butanone (MEK)	ND		50	49.5	99	50	49.7	99	0	62-146/13
104-51-8	n-Butylbenzene	ND		50	58.4	117	50	55.4	111	5	68-136/11
135-98-8	sec-Butylbenzene	ND		50	58.3	117	50	55.8	112	4	70-132/11
98-06-6	tert-Butylbenzene	ND		50	58.8	118	50	56.7	113	4	70-133/11
56-23-5	Carbon tetrachloride	ND		50	64.2	128	50	62.7	125	2	67-142/12
108-90-7	Chlorobenzene	ND		50	56.6	113	50	55.0	110	3	76-124/20
75-00-3	Chloroethane	ND		50	47.2	94	50	48.6	97	3	62-150/14
67-66-3	Chloroform	ND		50	56.0	112	50	54.8	110	2	76-129/20
74-87-3	Chloromethane	ND		50	44.4	89	50	45.5	91	2	51-133/15
95-49-8	o-Chlorotoluene	ND		50	55.5	111	50	54.5	109	2	73-123/20
106-43-4	p-Chlorotoluene	ND		50	56.8	114	50	55.4	111	2	72-123/20
108-20-3	Di-Isopropyl ether	ND		50	51.8	104	50	50.2	100	3	67-131/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	44.5	89	50	43.5	87	2	68-127/10
124-48-1	Dibromochloromethane	ND		50	54.1	108	50	53.0	106	2	76-125/20
106-93-4	1,2-Dibromoethane	ND		50	51.9	104	50	51.1	102	2	75-121/20
95-50-1	1,2-Dichlorobenzene	ND		50	54.1	108	50	52.3	105	3	76-121/20
541-73-1	1,3-Dichlorobenzene	ND		50	54.4	109	50	53.0	106	3	74-121/20
106-46-7	1,4-Dichlorobenzene	ND		50	54.1	108	50	52.7	105	3	74-120/20
75-71-8	Dichlorodifluoromethane	ND		50	42.8	86	50	41.8	84	2	40-149/16
75-34-3	1,1-Dichloroethane	ND		50	57.4	115	50	56.5	113	2	73-131/11
107-06-2	1,2-Dichloroethane	ND		50	56.4	113	50	54.7	109	3	70-132/20
75-35-4	1,1-Dichloroethene	ND		50	61.5	123	50	61.0	122	1	64-140/13
156-59-2	cis-1,2-Dichloroethene	ND		50	54.7	109	50	53.8	108	2	59-131/10
156-60-5	trans-1,2-Dichloroethene	ND		50	58.5	117	50	57.2	114	2	68-127/11
78-87-5	1,2-Dichloropropane	ND		50	54.7	109	50	53.2	106	3	75-124/20
142-28-9	1,3-Dichloropropane	ND		50	52.2	104	50	51.0	102	2	75-119/20
594-20-7	2,2-Dichloropropane	ND		50	61.7	123	50	59.5	119	4	57-145/12
563-58-6	1,1-Dichloropropene	ND		50	60.0	120	50	59.0	118	2	76-137/11
10061-01-5	cis-1,3-Dichloropropene	ND		50	54.4	109	50	53.7	107	1	77-123/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26726-2MS	2A170830.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2MSD	2A170831.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2	2A170824.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Compound	JC26726-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.9	106	50	52.0	104	2	73-121/20
100-41-4	Ethylbenzene	ND		50	54.9	110	50	54.1	108	1	46-141/20
87-68-3	Hexachlorobutadiene	ND		50	56.1	112	50	50.9	102	10	60-137/14
98-82-8	Isopropylbenzene	ND		50	57.5	115	50	55.7	111	3	70-129/11
99-87-6	p-Isopropyltoluene	ND		50	58.2	116	50	55.8	112	4	72-132/10
1634-04-4	Methyl Tert Butyl Ether	ND		100	98.9	99	100	97.2	97	2	68-125/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	49.5	99	50	49.9	100	1	73-135/20
74-95-3	Methylene bromide	ND		50	54.0	108	50	52.2	104	3	77-121/20
75-09-2	Methylene chloride	ND		50	52.7	105	50	52.1	104	1	73-127/11
91-20-3	Naphthalene	ND		50	42.9	86	50	43.2	86	1	63-139/12
103-65-1	n-Propylbenzene	ND		50	59.5	119	50	58.1	116	2	66-136/10
100-42-5	Styrene	ND		50	54.4	109	50	53.6	107	1	74-126/10
75-65-0	Tert Butyl Alcohol	ND		250	268	107	250	271	108	1	68-134/13
994-05-8	tert-Amyl Methyl Ether	ND		50	49.8	100	50	48.5	97	3	72-127/10
637-92-3	tert-Butyl Ethyl Ether	ND		50	51.0	102	50	49.2	98	4	73-128/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	54.6	109	50	53.8	108	1	75-123/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.5	95	50	46.5	93	2	71-121/20
127-18-4	Tetrachloroethene	ND		50	59.8	120	50	58.2	116	3	58-147/10
108-88-3	Toluene	ND		50	56.4	113	50	54.9	110	3	58-137/20
87-61-6	1,2,3-Trichlorobenzene	ND		50	42.0	84	50	42.8	86	2	69-132/12
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.4	105	50	51.2	102	2	71-133/11
71-55-6	1,1,1-Trichloroethane	ND		50	64.3	129	50	63.1	126	2	72-143/11
79-00-5	1,1,2-Trichloroethane	ND		50	52.4	105	50	51.2	102	2	75-122/20
79-01-6	Trichloroethene	ND		50	59.8	120	50	58.7	117	2	63-139/20
75-69-4	Trichlorofluoromethane	ND		50	55.5	111	50	54.4	109	2	57-151/14
96-18-4	1,2,3-Trichloropropane	ND		50	49.6	99	50	49.6	99	0	73-121/20
95-63-6	1,2,4-Trimethylbenzene	ND		50	56.2	112	50	54.6	109	3	50-145/10
108-67-8	1,3,5-Trimethylbenzene	ND		50	55.8	112	50	54.0	108	3	63-135/11
75-01-4	Vinyl chloride	ND		50	44.2	88	50	44.6	89	1	51-141/14
	m,p-Xylene	ND		100	114	114	100	112	112	2	46-144/20
95-47-6	o-Xylene	ND		50	56.7	113	50	55.7	111	2	63-137/20
1330-20-7	Xylene (total)	ND		150	171	114	150	168	112	2	52-141/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26726-2MS	2A170830.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2MSD	2A170831.D	1	08/31/16	TK	n/a	n/a	V2A7240
JC26726-2	2A170824.D	1	08/31/16	TK	n/a	n/a	V2A7240

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-6, JC26620-9

CAS No.	Surrogate Recoveries	MS	MSD	JC26726-2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	103%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	103%	73-122%
2037-26-5	Toluene-D8	100%	99%	100%	84-119%
460-00-4	4-Bromofluorobenzene	99%	99%	99%	78-117%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-2DUP	2A170818.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-2	2A170800.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	JC26620-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	13
71-43-2	Benzene	ND		ND		nc	12
108-86-1	Bromobenzene	ND		ND		nc	20
74-97-5	Bromochloromethane	ND		ND		nc	20
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
78-93-3	2-Butanone (MEK)	ND		ND		nc	20
104-51-8	n-Butylbenzene	ND		ND		nc	20
135-98-8	sec-Butylbenzene	ND		ND		nc	20
98-06-6	tert-Butylbenzene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	20
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	5.5		5.1		8	20
74-87-3	Chloromethane	ND		ND		nc	20
95-49-8	o-Chlorotoluene	ND		ND		nc	20
106-43-4	p-Chlorotoluene	ND		ND		nc	20
108-20-3	Di-Isopropyl ether	ND		ND		nc	20
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	20
124-48-1	Dibromochloromethane	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	20
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	20
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	ND		ND		nc	20
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethene	ND		ND		nc	20
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	15
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
142-28-9	1,3-Dichloropropane	ND		ND		nc	20
594-20-7	2,2-Dichloropropane	ND		ND		nc	20
563-58-6	1,1-Dichloropropene	ND		ND		nc	20
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-2DUP	2A170818.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-2	2A170800.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	JC26620-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
100-41-4	Ethylbenzene	ND		ND		nc	11
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
98-82-8	Isopropylbenzene	ND		ND		nc	20
99-87-6	p-Isopropyltoluene	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	20
74-95-3	Methylene bromide	ND		ND		nc	20
75-09-2	Methylene chloride	ND		ND		nc	20
91-20-3	Naphthalene	0.50	J	0.44	J	13* [a]	12
103-65-1	n-Propylbenzene	ND		ND		nc	20
100-42-5	Styrene	ND		ND		nc	20
75-65-0	Tert Butyl Alcohol	ND		ND		nc	20
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	20
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	20
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
127-18-4	Tetrachloroethene	ND		ND		nc	11
108-88-3	Toluene	ND		ND		nc	15
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
79-01-6	Trichloroethene	ND		ND		nc	14
75-69-4	Trichlorofluoromethane	ND		ND		nc	20
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	3.8		3.7		3	20
108-67-8	1,3,5-Trimethylbenzene	2.1		2.0		5	20
75-01-4	Vinyl chloride	ND		ND		nc	20
	m,p-Xylene	ND		ND		nc	13
95-47-6	o-Xylene	0.21	J	0.24	J	13* [a]	12
1330-20-7	Xylene (total)	0.21	J	0.24	J	13	16

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26620-2DUP	2A170818.D	1	08/31/16	TK	n/a	n/a	V2A7239
JC26620-2	2A170800.D	1	08/30/16	TK	n/a	n/a	V2A7239

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-7, JC26620-8, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Surrogate Recoveries	DUP	JC26620-2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	73-122%
2037-26-5	Toluene-D8	101%	103%	84-119%
460-00-4	4-Bromofluorobenzene	99%	100%	78-117%

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: V2A7226-BFB
Lab File ID: 2A170389.D
Instrument ID: GCMS2A
Injection Date: 08/18/16
Injection Time: 13:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17843	17.1		Pass
75	30.0 - 60.0% of mass 95	46685	44.8		Pass
95	Base peak, 100% relative abundance	104285	100.0		Pass
96	5.0 - 9.0% of mass 95	7007	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	97181	93.2		Pass
175	5.0 - 9.0% of mass 174	7410	7.11	(7.62) [a]	Pass
176	95.0 - 101.0% of mass 174	95096	91.2	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6456	6.19	(6.79) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7226-IC7226	2A170390.D	08/18/16	14:22	00:36	Initial cal 1
V2A7226-IC7226	2A170391.D	08/18/16	14:51	01:05	Initial cal 0.5
V2A7226-IC7226	2A170392.D	08/18/16	15:21	01:35	Initial cal 0.2
V2A7226-IC7226	2A170393.D	08/18/16	15:50	02:04	Initial cal 2
V2A7226-IC7226	2A170394.D	08/18/16	16:19	02:33	Initial cal 5
V2A7226-IC7226	2A170395.D	08/18/16	16:48	03:02	Initial cal 10
V2A7226-IC7226	2A170396.D	08/18/16	17:18	03:32	Initial cal 20
V2A7226-ICC7226	2A170397.D	08/18/16	17:47	04:01	Initial cal 50
V2A7226-IC7226	2A170398.D	08/18/16	18:17	04:31	Initial cal 100
V2A7226-IC7226	2A170399.D	08/18/16	18:46	05:00	Initial cal 200
V2A7226-ICV7226	2A170402.D	08/18/16	20:15	06:29	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: V2A7239-BFB
Lab File ID: 2A170793.D
Instrument ID: GCMS2A
Injection Date: 08/30/16
Injection Time: 20:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	22373	18.1		Pass
75	30.0 - 60.0% of mass 95	56920	45.9		Pass
95	Base peak, 100% relative abundance	123906	100.0		Pass
96	5.0 - 9.0% of mass 95	8551	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	111312	89.8		Pass
175	5.0 - 9.0% of mass 174	8315	6.71	(7.47) [a]	Pass
176	95.0 - 101.0% of mass 174	108152	87.3	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	7452	6.01	(6.89) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7239-CC7226	2A170794.D	08/30/16	20:38	00:29	Continuing cal 50
V2A7239-MB1	2A170796.D	08/30/16	21:37	01:28	Method Blank
V2A7239-BS	2A170797.D	08/30/16	22:07	01:58	Blank Spike
JC26620-1	2A170799.D	08/30/16	23:05	02:56	SB-1-GW
JC26620-2	2A170800.D	08/30/16	23:35	03:26	SB-2-GW
JC26620-3	2A170801.D	08/31/16	00:04	03:55	SB-3-GW
JC26620-4	2A170802.D	08/31/16	00:34	04:25	SB-4-GW
JC26620-5	2A170803.D	08/31/16	01:03	04:54	SB-5-GW
JC26620-7	2A170805.D	08/31/16	02:02	05:53	SB-7-GW
JC26620-8	2A170806.D	08/31/16	02:31	06:22	SB-8-GW
JC26620-10	2A170808.D	08/31/16	03:29	07:20	SB-10-GW
JC26620-11	2A170809.D	08/31/16	03:58	07:49	MW-1-GW
JC26620-12	2A170810.D	08/31/16	04:27	08:18	MW-2-GW
JC26620-13	2A170811.D	08/31/16	04:57	08:48	MW-3-GW

Instrument Performance Check (BFB)

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: V2A7240-BFB
Lab File ID: 2A170813.D
Instrument ID: GCMS2A
Injection Date: 08/31/16
Injection Time: 08:02

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	22490	17.8		Pass
75	30.0 - 60.0% of mass 95	57301	45.3		Pass
95	Base peak, 100% relative abundance	126480	100.0		Pass
96	5.0 - 9.0% of mass 95	8398	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	114800	90.8		Pass
175	5.0 - 9.0% of mass 174	8960	7.08	(7.80) [a]	Pass
176	95.0 - 101.0% of mass 174	111042	87.8	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	7613	6.02	(6.86) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7240-CC7226	2A170815.D	08/31/16	09:35	01:33	Continuing cal 20
V2A7239-MB2	2A170817.D	08/31/16	10:53	02:51	Method Blank
JC26620-2DUP	2A170818.D	08/31/16	11:23	03:21	Duplicate
JC26620-1MS	2A170819.D	08/31/16	11:52	03:50	Matrix Spike
V2A7240-MB	2A170821.D	08/31/16	12:51	04:49	Method Blank
V2A7240-BS	2A170822.D	08/31/16	13:20	05:18	Blank Spike
JC26726-2	2A170824.D	08/31/16	14:22	06:20	(used for QC only; not part of job JC26620)
ZZZZZZ	2A170825.D	08/31/16	15:00	06:58	(unrelated sample)
JC26620-6	2A170826.D	08/31/16	15:29	07:27	SB-6-GW
JC26620-9	2A170827.D	08/31/16	15:58	07:56	SB-9-GW
ZZZZZZ	2A170828.D	08/31/16	16:28	08:26	(unrelated sample)
JC26726-2MS	2A170830.D	08/31/16	17:27	09:25	Matrix Spike
JC26726-2MSD	2A170831.D	08/31/16	17:56	09:54	Matrix Spike Duplicate
ZZZZZZ	2A170833.D	08/31/16	18:55	10:53	(unrelated sample)
ZZZZZZ	2A170834.D	08/31/16	19:25	11:23	(unrelated sample)
ZZZZZZ	2A170835.D	08/31/16	19:54	11:52	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC26620-1	2A170799.D	103	104	103	100
JC26620-2	2A170800.D	104	105	103	100
JC26620-3	2A170801.D	103	103	102	100
JC26620-4	2A170802.D	102	104	101	100
JC26620-5	2A170803.D	104	104	101	98
JC26620-6	2A170826.D	103	103	101	99
JC26620-7	2A170805.D	103	103	101	100
JC26620-8	2A170806.D	104	103	103	100
JC26620-9	2A170827.D	104	103	100	98
JC26620-10	2A170808.D	104	103	101	98
JC26620-11	2A170809.D	103	102	102	97
JC26620-12	2A170810.D	103	103	100	98
JC26620-13	2A170811.D	104	103	100	98
JC26620-1MS	2A170819.D	104	102	100	97
JC26620-2DUP	2A170818.D	103	103	101	99
JC26726-2MS	2A170830.D	102	101	100	99
JC26726-2MSD	2A170831.D	102	102	99	99
V2A7239-BS	2A170797.D	102	103	100	98
V2A7239-MB1	2A170796.D	103	103	102	100
V2A7240-BS	2A170822.D	103	101	101	98
V2A7240-MB	2A170821.D	102	101	102	98
V2A7239-MB2	2A170817.D	101	102	101	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96690-MB1	2Y79184.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3054

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-6, JC26620-7, JC26620-8, JC26620-9, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	103%	36-144%
16416-32-3	Tetracosane-d50	93%	32-138%
438-22-2	5a-Androstane	87%	31-136%

Blank Spike Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96690-BS1	2Y79185.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3054

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-6, JC26620-7, JC26620-8, JC26620-9, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	3.33	2.70	81	15-111

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	36-144%
16416-32-3	Tetracosane-d50	98%	32-138%
438-22-2	5a-Androstane	91%	31-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96690-MS	2Y79195.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
OP96690-MSD	2Y79196.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055
JC26620-3	2Y79194.D	1	09/01/16	HC	08/31/16	OP96690	G2Y3055

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC26620-1, JC26620-2, JC26620-3, JC26620-4, JC26620-5, JC26620-6, JC26620-7, JC26620-8, JC26620-9, JC26620-10, JC26620-11, JC26620-12, JC26620-13

CAS No.	Compound	JC26620-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		6.67	4.07	61	6.67	4.32	65	6	23-160/31

CAS No.	Surrogate Recoveries	MS	MSD	JC26620-3	Limits
84-15-1	o-Terphenyl	68%	72%	113%	36-144%
16416-32-3	Tetracosane-d50	75%	78%	104%	32-138%
438-22-2	5a-Androstane	71%	74%	98%	31-136%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC26620
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]
JC26620-1	2Y79192.D	93	76	71
JC26620-2	2Y79193.D	95	68	60
JC26620-3	2Y79194.D	113	104	98
JC26620-4	2Y79199.D	65	40	36
JC26620-5	2Y79200.D	79	54	48
JC26620-6	2Y79201.D	92	52	44
JC26620-7	2Y79202.D	56	42	39
JC26620-8	2Y79203.D	105	98	88
JC26620-9	2Y79204.D	54	39	37
JC26620-10	2Y79205.D	60	39	36
JC26620-11	2Y79206.D	74	52	44
JC26620-12	2Y79207.D	84	66	61
JC26620-13	2Y79210.D	75	59	56
OP96690-BS1	2Y79185.D	93	98	91
OP96690-MB1	2Y79184.D	103	93	87
OP96690-MS	2Y79195.D	68	75	71
OP96690-MSD	2Y79196.D	72	78	74

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	36-144%
S2 = Tetracosane-d50	32-138%
S3 = 5a-Androstane	31-136%

(a) Recovery from GC signal #1

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Automated Report

Technical Report for

Apex Companies, LLC

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-004

SGS Accutest Job Number: JC25831

Sampling Dates: 08/11/16 - 08/12/16

Report to:

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Total number of pages in report: **162**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

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Sample Summary

Apex Companies, LLC

Job No: JC25831

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Project No: AMORT-004

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC25831-1	08/11/16	09:00	TKP	08/15/16	SO	Soil	SB-1-S
JC25831-2	08/11/16	11:30	TKP	08/15/16	SO	Soil	SB-2-S
JC25831-3	08/12/16	10:50	TKP	08/15/16	SO	Soil	SB-3-S
JC25831-4	08/11/16	13:05	TKP	08/15/16	SO	Soil	SB-4-S
JC25831-5	08/11/16	10:55	TKP	08/15/16	SO	Soil	SB-5-S
JC25831-6	08/11/16	09:40	TKP	08/15/16	SO	Soil	SB-6-S
JC25831-7	08/11/16	10:10	TKP	08/15/16	SO	Soil	SB-7-S
JC25831-8	08/11/16	14:05	TKP	08/15/16	SO	Soil	SB-8-S-1
JC25831-9	08/11/16	13:55	TKP	08/15/16	SO	Soil	SB-8-S-2
JC25831-10	08/12/16	09:05	TKP	08/15/16	SO	Soil	SB-9-S
JC25831-11	08/12/16	10:10	TKP	08/15/16	SO	Soil	SB-10-S

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC25831-1	**SB-1-S**					
Chloroform		0.41 J	2.4	0.29	ug/kg	SW846 8260C
Methylene chloride		1.1 J	6.1	0.42	ug/kg	SW846 8260C
JC25831-2	**SB-2-S**					
Methylene chloride		0.65 J	6.0	0.41	ug/kg	SW846 8260C
TPH-DRO (C10-C28)		39.8	11	3.2	mg/kg	SW846 8015C
JC25831-3	**SB-3-S**					
Acetone		23.6	14	2.6	ug/kg	SW846 8260C
Styrene		0.28 J	2.8	0.20	ug/kg	SW846 8260C
JC25831-4	**SB-4-S**					
Methylene chloride		1.1 J	6.1	0.42	ug/kg	SW846 8260C
JC25831-5	**SB-5-S**					
Benzene		36.0 J	64	15	ug/kg	SW846 8260C
n-Butylbenzene		6950	260	19	ug/kg	SW846 8260C
sec-Butylbenzene		5180	260	20	ug/kg	SW846 8260C
tert-Butylbenzene		134 J	260	20	ug/kg	SW846 8260C
Ethylbenzene		1930	130	19	ug/kg	SW846 8260C
Isopropylbenzene		1090	260	20	ug/kg	SW846 8260C
p-Isopropyltoluene		5010	260	31	ug/kg	SW846 8260C
Naphthalene		8230	640	19	ug/kg	SW846 8260C
n-Propylbenzene		2610	260	25	ug/kg	SW846 8260C
Toluene		1630	130	16	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		40600	2600	220	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		16000	260	21	ug/kg	SW846 8260C
m,p-Xylene		12900	130	28	ug/kg	SW846 8260C
o-Xylene		8170	130	26	ug/kg	SW846 8260C
Xylene (total)		21100	130	26	ug/kg	SW846 8260C
Benzo(a)anthracene		21.6 J	39	11	ug/kg	SW846 8270D
Chrysene		39.6	39	12	ug/kg	SW846 8270D
Fluorene		771	39	18	ug/kg	SW846 8270D
Naphthalene		3310	390	110	ug/kg	SW846 8270D
Phenanthrene		1690	39	13	ug/kg	SW846 8270D
Pyrene		574	39	12	ug/kg	SW846 8270D
TPH-DRO (C10-C28)		2380	7.1	2.0	mg/kg	SW846 8015C

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC25831-6	**SB-6-S**					
Methylene chloride		1.4 J	7.2	0.49	ug/kg	SW846 8260C
JC25831-7	**SB-7-S**					
Methylene chloride		0.66 J	5.7	0.39	ug/kg	SW846 8260C
JC25831-8	**SB-8-S-1**					
Methylene chloride		0.82 J	7.0	0.48	ug/kg	SW846 8260C
JC25831-9	**SB-8-S-2**					
n-Butylbenzene		0.34 J	2.2	0.17	ug/kg	SW846 8260C
sec-Butylbenzene		1.1 J	2.2	0.17	ug/kg	SW846 8260C
Ethylbenzene		0.61 J	1.1	0.16	ug/kg	SW846 8260C
Isopropylbenzene		0.30 J	2.2	0.17	ug/kg	SW846 8260C
p-Isopropyltoluene		1.5 J	2.2	0.27	ug/kg	SW846 8260C
Methylene chloride		1.1 J	5.5	0.38	ug/kg	SW846 8260C
Naphthalene		23.5	5.5	0.16	ug/kg	SW846 8260C
n-Propylbenzene		0.58 J	2.2	0.22	ug/kg	SW846 8260C
Toluene		0.47 J	1.1	0.14	ug/kg	SW846 8260C
1,2,3-Trichlorobenzene		2.0 J	5.5	0.25	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		91.8	2.2	0.19	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		70.3	2.2	0.18	ug/kg	SW846 8260C
m,p-Xylene		6.6	1.1	0.24	ug/kg	SW846 8260C
o-Xylene		20.6	1.1	0.22	ug/kg	SW846 8260C
Xylene (total)		27.2	1.1	0.22	ug/kg	SW846 8260C
JC25831-10	**SB-9-S**					
n-Butylbenzene		27700	290	22	ug/kg	SW846 8260C
sec-Butylbenzene		17300	290	22	ug/kg	SW846 8260C
tert-Butylbenzene		533	290	23	ug/kg	SW846 8260C
Ethylbenzene		10600	140	21	ug/kg	SW846 8260C
Isopropylbenzene		7510	290	22	ug/kg	SW846 8260C
p-Isopropyltoluene		15700	290	35	ug/kg	SW846 8260C
Naphthalene		16900	720	21	ug/kg	SW846 8260C
n-Propylbenzene		21400	290	28	ug/kg	SW846 8260C
Toluene		1890	140	18	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		151000	2900	250	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		53100	2900	240	ug/kg	SW846 8260C
m,p-Xylene		50100	140	31	ug/kg	SW846 8260C
o-Xylene		28800	1400	290	ug/kg	SW846 8260C

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		78900	1400	290	ug/kg	SW846 8260C
Fluorene		241	43	20	ug/kg	SW846 8270D
Naphthalene		623	43	12	ug/kg	SW846 8270D
Phenanthrene		371	43	15	ug/kg	SW846 8270D
Pyrene		157	43	14	ug/kg	SW846 8270D
TPH-DRO (C10-C28)		1860	13	3.6	mg/kg	SW846 8015C
JC25831-11	**SB-10-S**					
Methylene chloride		0.69 J	5.1	0.35	ug/kg	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165993.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.3	ug/kg	
71-43-2	Benzene	ND	0.61	0.15	ug/kg	
108-86-1	Bromobenzene	ND	6.1	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	6.1	0.33	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.59	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.19	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.20	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.52	ug/kg	
67-66-3	Chloroform	0.41	2.4	0.29	ug/kg	J
74-87-3	Chloromethane	ND	6.1	0.26	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.25	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.30	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.59	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.54	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.38	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.19	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.19	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.1	0.46	ug/kg	
75-09-2	Methylene chloride	1.1	6.1	0.42	ug/kg	J
91-20-3	Naphthalene	ND	6.1	0.18	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.18	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	31	3.7	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.65	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.32	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.34	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.28	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.40	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.77	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	0.94	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.25	ug/kg	
	m,p-Xylene	ND	1.2	0.27	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	98%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30746A.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	20	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	19	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	20	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		26-122%
321-60-8	2-Fluorobiphenyl	101%		36-112%
1718-51-0	Terphenyl-d14	92%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19174.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.5	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		13-142%
16416-32-3	Tetracosane-d50	91%		12-141%
438-22-2	5a-Androstane	88%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.2	ug/kg	
71-43-2	Benzene	ND	0.60	0.14	ug/kg	
108-86-1	Bromobenzene	ND	6.0	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.18	ug/kg	
75-25-2	Bromoform	ND	6.0	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.58	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.18	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.18	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.19	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.51	ug/kg	
67-66-3	Chloroform	ND	2.4	0.28	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.25	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.24	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.29	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.58	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.65	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.18	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.37	ug/kg	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.23	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.18	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.0	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.18	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.29	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.0	0.45	ug/kg	
75-09-2	Methylene chloride	0.65	6.0	0.41	ug/kg	J
91-20-3	Naphthalene	ND	6.0	0.17	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.17	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	30	3.6	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.64	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.31	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.33	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.27	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.38	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.75	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	0.92	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.24	ug/kg	
	m,p-Xylene	ND	1.2	0.26	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.24	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30798.D	1	08/22/16	AN	08/17/16	OP96369	E5P1565
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	19	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	18	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	20	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		26-122%
321-60-8	2-Fluorobiphenyl	99%		36-112%
1718-51-0	Terphenyl-d14	86%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ78606.D	1	08/19/16	TL	08/17/16	OP96381	GZZ2813
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	39.8	11	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		13-142%
16416-32-3	Tetracosane-d50	109%		12-141%
438-22-2	5a-Androstane	108%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	3.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	23.6	14	2.6	ug/kg	
71-43-2	Benzene	ND	0.69	0.17	ug/kg	
108-86-1	Bromobenzene	ND	6.9	0.21	ug/kg	
74-97-5	Bromochloromethane	ND	6.9	0.44	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.21	ug/kg	
75-25-2	Bromoform	ND	6.9	0.37	ug/kg	
74-83-9	Bromomethane	ND	6.9	0.67	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.4	ug/kg	
104-51-8	n-Butylbenzene	ND	2.8	0.21	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.8	0.21	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.8	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.22	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.59	ug/kg	
67-66-3	Chloroform	ND	2.8	0.33	ug/kg	
74-87-3	Chloromethane	ND	6.9	0.29	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.8	0.28	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.8	0.34	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.8	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	0.75	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.60	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.43	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.8	0.27	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.8	0.21	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.8	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.30	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.9	0.22	ug/kg	
98-82-8	Isopropylbenzene	ND	2.8	0.21	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.8	0.34	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	1.2	ug/kg	
74-95-3	Methylene bromide	ND	6.9	0.52	ug/kg	
75-09-2	Methylene chloride	ND	6.9	0.47	ug/kg	
91-20-3	Naphthalene	ND	6.9	0.20	ug/kg	
103-65-1	n-Propylbenzene	ND	2.8	0.27	ug/kg	
100-42-5	Styrene	0.28	2.8	0.20	ug/kg	J
75-65-0	Tert Butyl Alcohol	ND	34	4.2	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.8	0.73	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.8	0.36	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.8	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.39	ug/kg	
108-88-3	Toluene	ND	1.4	0.17	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.9	0.31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	0.25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.44	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.26	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.9	0.87	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.9	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.8	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.8	0.23	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.28	ug/kg	
	m,p-Xylene	ND	1.4	0.30	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30752.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	15	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	14	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	15	ug/kg	
91-20-3	Naphthalene	ND	33	9.2	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		26-122%
321-60-8	2-Fluorobiphenyl	90%		36-112%
1718-51-0	Terphenyl-d14	107%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19187.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.1	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	89%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165996.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.3	ug/kg	
71-43-2	Benzene	ND	0.61	0.15	ug/kg	
108-86-1	Bromobenzene	ND	6.1	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	6.1	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.59	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.19	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.20	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.52	ug/kg	
67-66-3	Chloroform	ND	2.4	0.29	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.26	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.25	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.30	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.59	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.53	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.38	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.19	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.19	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.1	0.46	ug/kg	
75-09-2	Methylene chloride	1.1	6.1	0.42	ug/kg	J
91-20-3	Naphthalene	ND	6.1	0.18	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.18	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	31	3.7	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.65	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.32	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.34	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.28	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.39	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.77	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	0.94	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.25	ug/kg	
	m,p-Xylene	ND	1.2	0.27	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30748.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	38	13	ug/kg	
208-96-8	Acenaphthylene	ND	38	19	ug/kg	
120-12-7	Anthracene	ND	38	23	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	18	ug/kg	
218-01-9	Chrysene	ND	38	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	17	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	18	ug/kg	
91-20-3	Naphthalene	ND	38	11	ug/kg	
85-01-8	Phenanthrene	ND	38	13	ug/kg	
129-00-0	Pyrene	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		26-122%
321-60-8	2-Fluorobiphenyl	92%		36-112%
1718-51-0	Terphenyl-d14	62%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19188.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.0	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		13-142%
16416-32-3	Tetracosane-d50	86%		12-141%
438-22-2	5a-Androstane	84%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D242700.D	1	08/24/16	TP	n/a	n/a	VD9865
Run #2	D242685.D	1	08/24/16	TP	n/a	n/a	VD9865

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	10.0 ml	100 ul
Run #2	5.1 g	10.0 ml	10.0 ul

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	240	ug/kg	
71-43-2	Benzene	36.0	64	15	ug/kg	J
108-86-1	Bromobenzene	ND	640	20	ug/kg	
74-97-5	Bromochloromethane	ND	640	41	ug/kg	
75-27-4	Bromodichloromethane	ND	260	19	ug/kg	
75-25-2	Bromoform	ND	640	34	ug/kg	
74-83-9	Bromomethane	ND	640	62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	230	ug/kg	
104-51-8	n-Butylbenzene	6950	260	19	ug/kg	
135-98-8	sec-Butylbenzene	5180	260	20	ug/kg	
98-06-6	tert-Butylbenzene	134	260	20	ug/kg	J
56-23-5	Carbon tetrachloride	ND	260	21	ug/kg	
108-90-7	Chlorobenzene	ND	260	21	ug/kg	
75-00-3	Chloroethane	ND	640	55	ug/kg	
67-66-3	Chloroform	ND	260	30	ug/kg	
74-87-3	Chloromethane	ND	640	27	ug/kg	
95-49-8	o-Chlorotoluene	ND	260	26	ug/kg	
106-43-4	p-Chlorotoluene	ND	260	31	ug/kg	
108-20-3	Di-Isopropyl ether	ND	260	17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	260	62	ug/kg	
124-48-1	Dibromochloromethane	ND	260	19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	130	31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	130	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	130	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	130	20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	640	70	ug/kg	
75-34-3	1,1-Dichloroethane	ND	130	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	130	22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	130	20	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	130	56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	130	20	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	40	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	260	25	ug/kg	
594-20-7	2,2-Dichloropropane	ND	260	20	ug/kg	
563-58-6	1,1-Dichloropropene	ND	260	20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	28	ug/kg	
100-41-4	Ethylbenzene	1930	130	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	640	20	ug/kg	
98-82-8	Isopropylbenzene	1090	260	20	ug/kg	
99-87-6	p-Isopropyltoluene	5010	260	31	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	130	34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	640	110	ug/kg	
74-95-3	Methylene bromide	ND	640	48	ug/kg	
75-09-2	Methylene chloride	ND	640	44	ug/kg	
91-20-3	Naphthalene	8230	640	19	ug/kg	
103-65-1	n-Propylbenzene	2610	260	25	ug/kg	
100-42-5	Styrene	ND	260	19	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	3200	390	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	260	68	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	260	33	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	260	27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	31	ug/kg	
127-18-4	Tetrachloroethene	ND	260	36	ug/kg	
108-88-3	Toluene	1630	130	16	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	640	29	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	640	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	41	ug/kg	
79-01-6	Trichloroethene	ND	130	24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	640	80	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	640	99	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	40600 [a]	2600	220	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	16000	260	21	ug/kg	
75-01-4	Vinyl chloride	ND	260	26	ug/kg	
	m,p-Xylene	12900	130	28	ug/kg	
95-47-6	o-Xylene	8170	130	26	ug/kg	
1330-20-7	Xylene (total)	21100	130	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	102%	68-124%
2037-26-5	Toluene-D8	102%	101%	77-125%
460-00-4	4-Bromofluorobenzene	102%	99%	72-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30749.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2	5P30799.D	10	08/22/16	AN	08/17/16	OP96369	E5P1565

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2	30.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	39	13	ug/kg	
208-96-8	Acenaphthylene	ND	39	20	ug/kg	
120-12-7	Anthracene	ND	39	24	ug/kg	
56-55-3	Benzo(a)anthracene	21.6	39	11	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	39	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	18	ug/kg	
218-01-9	Chrysene	39.6	39	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	17	ug/kg	
206-44-0	Fluoranthene	ND	39	17	ug/kg	
86-73-7	Fluorene	771	39	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	18	ug/kg	
91-20-3	Naphthalene	3310 [a]	390	110	ug/kg	
85-01-8	Phenanthrene	1690	39	13	ug/kg	
129-00-0	Pyrene	574	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%	111%	26-122%
321-60-8	2-Fluorobiphenyl	78%	112%	36-112%
1718-51-0	Terphenyl-d14	96%	112%	36-132%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19189.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2380	7.1	2.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	322% [a]		13-142%
16416-32-3	Tetracosane-d50	109%		12-141%
438-22-2	5a-Androstane	126%		13-142%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165997.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.7	ug/kg	
71-43-2	Benzene	ND	0.72	0.17	ug/kg	
108-86-1	Bromobenzene	ND	7.2	0.22	ug/kg	
74-97-5	Bromochloromethane	ND	7.2	0.46	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.22	ug/kg	
75-25-2	Bromoform	ND	7.2	0.38	ug/kg	
74-83-9	Bromomethane	ND	7.2	0.70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	2.9	0.22	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.9	0.22	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.9	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	0.24	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.23	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.62	ug/kg	
67-66-3	Chloroform	ND	2.9	0.34	ug/kg	
74-87-3	Chloromethane	ND	7.2	0.30	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.9	0.29	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.9	0.35	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.9	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	0.70	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.35	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	0.79	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.45	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.9	0.28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.9	0.22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.9	0.23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.32	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.2	0.23	ug/kg	
98-82-8	Isopropylbenzene	ND	2.9	0.22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.9	0.35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	1.2	ug/kg	
74-95-3	Methylene bromide	ND	7.2	0.54	ug/kg	
75-09-2	Methylene chloride	1.4	7.2	0.49	ug/kg	J
91-20-3	Naphthalene	ND	7.2	0.21	ug/kg	
103-65-1	n-Propylbenzene	ND	2.9	0.29	ug/kg	
100-42-5	Styrene	ND	2.9	0.21	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	36	4.4	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.9	0.77	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.9	0.37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.9	0.31	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.41	ug/kg	
108-88-3	Toluene	ND	1.4	0.18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	0.33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.47	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.91	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.2	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.9	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.9	0.24	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.29	ug/kg	
	m,p-Xylene	ND	1.4	0.32	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30750.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	25	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	19	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	18	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	19	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		26-122%
321-60-8	2-Fluorobiphenyl	98%		36-112%
1718-51-0	Terphenyl-d14	67%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19192.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.3	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		13-142%
16416-32-3	Tetracosane-d50	95%		12-141%
438-22-2	5a-Androstane	90%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166007.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.1	ug/kg	
71-43-2	Benzene	ND	0.57	0.14	ug/kg	
108-86-1	Bromobenzene	ND	5.7	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.17	ug/kg	
75-25-2	Bromoform	ND	5.7	0.30	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.55	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	2.3	0.17	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.3	0.17	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.3	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.48	ug/kg	
67-66-3	Chloroform	ND	2.3	0.27	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.24	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.3	0.23	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.3	0.28	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.3	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.55	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.62	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.18	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.35	ug/kg	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.3	0.22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.3	0.17	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.3	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.7	0.18	ug/kg	
98-82-8	Isopropylbenzene	ND	2.3	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.3	0.28	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.96	ug/kg	
74-95-3	Methylene bromide	ND	5.7	0.43	ug/kg	
75-09-2	Methylene chloride	0.66	5.7	0.39	ug/kg	J
91-20-3	Naphthalene	ND	5.7	0.16	ug/kg	
103-65-1	n-Propylbenzene	ND	2.3	0.22	ug/kg	
100-42-5	Styrene	ND	2.3	0.16	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	28	3.4	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.3	0.60	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.3	0.29	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.3	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.27	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.32	ug/kg	
108-88-3	Toluene	ND	1.1	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.37	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.71	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.7	0.87	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.3	0.20	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	0.19	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.23	ug/kg	
	m,p-Xylene	ND	1.1	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30751.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	15	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	15	ug/kg	
91-20-3	Naphthalene	ND	33	9.3	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		26-122%
321-60-8	2-Fluorobiphenyl	89%		36-112%
1718-51-0	Terphenyl-d14	76%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19193.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		13-142%
16416-32-3	Tetracosane-d50	93%		12-141%
438-22-2	5a-Androstane	88%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166027.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.6	ug/kg	
71-43-2	Benzene	ND	0.70	0.17	ug/kg	
108-86-1	Bromobenzene	ND	7.0	0.22	ug/kg	
74-97-5	Bromochloromethane	ND	7.0	0.45	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.21	ug/kg	
75-25-2	Bromoform	ND	7.0	0.37	ug/kg	
74-83-9	Bromomethane	ND	7.0	0.68	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	2.8	0.21	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.8	0.22	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.8	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.23	ug/kg	
75-00-3	Chloroethane	ND	7.0	0.60	ug/kg	
67-66-3	Chloroform	ND	2.8	0.34	ug/kg	
74-87-3	Chloromethane	ND	7.0	0.30	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.8	0.29	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.8	0.34	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.8	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.68	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.34	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.0	0.77	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.44	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.8	0.28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.8	0.22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.8	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.31	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.0	0.22	ug/kg	
98-82-8	Isopropylbenzene	ND	2.8	0.22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.8	0.34	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	1.2	ug/kg	
74-95-3	Methylene bromide	ND	7.0	0.53	ug/kg	
75-09-2	Methylene chloride	0.82	7.0	0.48	ug/kg	J
91-20-3	Naphthalene	ND	7.0	0.20	ug/kg	
103-65-1	n-Propylbenzene	ND	2.8	0.28	ug/kg	
100-42-5	Styrene	ND	2.8	0.20	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	35	4.3	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.8	0.75	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.8	0.36	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.8	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.40	ug/kg	
108-88-3	Toluene	ND	1.4	0.18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	0.32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	0.26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.46	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.0	0.89	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.8	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.8	0.23	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.28	ug/kg	
	m,p-Xylene	ND	1.4	0.31	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	95%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106792.D	1	08/19/16	AC	08/17/16	OP96370	EP4727
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	43	15	ug/kg	
208-96-8	Acenaphthylene	ND	43	22	ug/kg	
120-12-7	Anthracene	ND	43	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	20	ug/kg	
218-01-9	Chrysene	ND	43	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	19	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	ND	43	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	20	ug/kg	
91-20-3	Naphthalene	ND	43	12	ug/kg	
85-01-8	Phenanthrene	ND	43	14	ug/kg	
129-00-0	Pyrene	ND	43	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	98%		26-122%
321-60-8	2-Fluorobiphenyl	101%		36-112%
1718-51-0	Terphenyl-d14	90%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19194.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.7	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	93%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.1	ug/kg	
71-43-2	Benzene	ND	0.55	0.13	ug/kg	
108-86-1	Bromobenzene	ND	5.5	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.5	0.29	ug/kg	
74-83-9	Bromomethane	ND	5.5	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	1.9	ug/kg	
104-51-8	n-Butylbenzene	0.34	2.2	0.17	ug/kg	J
135-98-8	sec-Butylbenzene	1.1	2.2	0.17	ug/kg	J
98-06-6	tert-Butylbenzene	ND	2.2	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.47	ug/kg	
67-66-3	Chloroform	ND	2.2	0.26	ug/kg	
74-87-3	Chloromethane	ND	5.5	0.23	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.2	0.22	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.2	0.27	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.53	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	0.60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.48	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.17	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.34	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.2	0.22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.2	0.17	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.2	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.24	ug/kg	
100-41-4	Ethylbenzene	0.61	1.1	0.16	ug/kg	J
87-68-3	Hexachlorobutadiene	ND	5.5	0.17	ug/kg	
98-82-8	Isopropylbenzene	0.30	2.2	0.17	ug/kg	J
99-87-6	p-Isopropyltoluene	1.5	2.2	0.27	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	0.93	ug/kg	
74-95-3	Methylene bromide	ND	5.5	0.41	ug/kg	
75-09-2	Methylene chloride	1.1	5.5	0.38	ug/kg	J
91-20-3	Naphthalene	23.5	5.5	0.16	ug/kg	
103-65-1	n-Propylbenzene	0.58	2.2	0.22	ug/kg	J
100-42-5	Styrene	ND	2.2	0.16	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	27	3.3	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.2	0.59	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.2	0.28	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.2	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.31	ug/kg	
108-88-3	Toluene	0.47	1.1	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	2.0	5.5	0.25	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.35	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	0.69	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	0.85	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	91.8	2.2	0.19	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	70.3	2.2	0.18	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.22	ug/kg	
	m,p-Xylene	6.6	1.1	0.24	ug/kg	
95-47-6	o-Xylene	20.6	1.1	0.22	ug/kg	
1330-20-7	Xylene (total)	27.2	1.1	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		68-124%
2037-26-5	Toluene-D8	104%		77-125%
460-00-4	4-Bromofluorobenzene	88%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106793.D	1	08/19/16	AC	08/17/16	OP96370	EP4727
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	34	12	ug/kg	
208-96-8	Acenaphthylene	ND	34	17	ug/kg	
120-12-7	Anthracene	ND	34	21	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	9.7	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	16	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	15	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	16	ug/kg	
91-20-3	Naphthalene	ND	34	9.7	ug/kg	
85-01-8	Phenanthrene	ND	34	12	ug/kg	
129-00-0	Pyrene	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		26-122%
321-60-8	2-Fluorobiphenyl	96%		36-112%
1718-51-0	Terphenyl-d14	84%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78884.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	9.9	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	116%		13-142%
16416-32-3	Tetracosane-d50	110%		12-141%
438-22-2	5a-Androstane	109%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309
Run #2	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	10.0 ml	100 ul
Run #2	5.4 g	10.0 ml	10.0 ul

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1400	270	ug/kg	
71-43-2	Benzene	ND	72	17	ug/kg	
108-86-1	Bromobenzene	ND	720	22	ug/kg	
74-97-5	Bromochloromethane	ND	720	46	ug/kg	
75-27-4	Bromodichloromethane	ND	290	22	ug/kg	
75-25-2	Bromoform	ND	720	38	ug/kg	
74-83-9	Bromomethane	ND	720	70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1400	250	ug/kg	
104-51-8	n-Butylbenzene	27700	290	22	ug/kg	
135-98-8	sec-Butylbenzene	17300	290	22	ug/kg	
98-06-6	tert-Butylbenzene	533	290	23	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	24	ug/kg	
108-90-7	Chlorobenzene	ND	290	23	ug/kg	
75-00-3	Chloroethane	ND	720	62	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	720	30	ug/kg	
95-49-8	o-Chlorotoluene	ND	290	29	ug/kg	
106-43-4	p-Chlorotoluene	ND	290	35	ug/kg	
108-20-3	Di-Isopropyl ether	ND	290	19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	70	ug/kg	
124-48-1	Dibromochloromethane	ND	290	22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	140	35	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	140	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	140	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	140	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	720	78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	140	27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	140	22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	140	63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	140	23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	44	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	290	28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	290	22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	290	23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	32	ug/kg	
100-41-4	Ethylbenzene	10600	140	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	720	23	ug/kg	
98-82-8	Isopropylbenzene	7510	290	22	ug/kg	
99-87-6	p-Isopropyltoluene	15700	290	35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	720	120	ug/kg	
74-95-3	Methylene bromide	ND	720	54	ug/kg	
75-09-2	Methylene chloride	ND	720	49	ug/kg	
91-20-3	Naphthalene	16900	720	21	ug/kg	
103-65-1	n-Propylbenzene	21400	290	28	ug/kg	
100-42-5	Styrene	ND	290	21	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	3600	440	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	290	77	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	290	37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	290	30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	34	ug/kg	
127-18-4	Tetrachloroethene	ND	290	40	ug/kg	
108-88-3	Toluene	1890	140	18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	720	32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	720	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	46	ug/kg	
79-01-6	Trichloroethene	ND	140	27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	720	90	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	720	110	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	151000 [a]	2900	250	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	53100 [a]	2900	240	ug/kg	
75-01-4	Vinyl chloride	ND	290	29	ug/kg	
	m,p-Xylene	50100	140	31	ug/kg	
95-47-6	o-Xylene	28800 [a]	1400	290	ug/kg	
1330-20-7	Xylene (total)	78900 [a]	1400	290	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	112%	70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%	119%	68-124%
2037-26-5	Toluene-D8	113%	97%	77-125%
460-00-4	4-Bromofluorobenzene	99%	93%	72-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106856.D	1	08/22/16	RL	08/17/16	OP96370	EP4730
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	43	15	ug/kg	
208-96-8	Acenaphthylene	ND	43	22	ug/kg	
120-12-7	Anthracene	ND	43	27	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	20	ug/kg	
218-01-9	Chrysene	ND	43	14	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	19	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	241	43	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	20	ug/kg	
91-20-3	Naphthalene	623	43	12	ug/kg	
85-01-8	Phenanthrene	371	43	15	ug/kg	
129-00-0	Pyrene	157	43	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	119%		26-122%
321-60-8	2-Fluorobiphenyl	94%		36-112%
1718-51-0	Terphenyl-d14	72%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78887.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1860	13	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	125%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	102%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.51	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.1	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.1	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.16	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.16	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.44	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.22	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.21	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.32	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.16	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.16	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.87	ug/kg	
74-95-3	Methylene bromide	ND	5.1	0.38	ug/kg	
75-09-2	Methylene chloride	0.69	5.1	0.35	ug/kg	J
91-20-3	Naphthalene	ND	5.1	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	26	3.1	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.54	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.29	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.33	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.64	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	0.79	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106857.D	1	08/22/16	RL	08/17/16	OP96370	EP4730
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
120-12-7	Anthracene	ND	35	22	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	17	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	16	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	17	ug/kg	
91-20-3	Naphthalene	ND	35	10	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	96%		26-122%
321-60-8	2-Fluorobiphenyl	96%		36-112%
1718-51-0	Terphenyl-d14	88%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78888.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	11	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		13-142%
16416-32-3	Tetracosane-d50	88%		12-141%
438-22-2	5a-Androstane	87%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking # 6780 9736 1073
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # JC 25831

Client / Reporting Information

Company Name: Apex
Street Address: 15850 Crabbs Branch Way
City: Rockville State: MD Zip: 20855
Project Contact: Todd Pressmore E-mail: tpressmore@apexcos.com
Phone #: 410 977 2896 Fax #:
Sampler(s) Name(s): TKP Phone #:

Project Information

Project Name: North Point Govt Facility
Street: 7701 Wise Ave
City: Dundalk State: MD
Project #: ANORT-004
Client Purchase Order #:
Project Manager: Todd Pressmore

Billing Information (if different from Report to)

Company Name: Same
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TPH-GRO 8015	PAHs 8270	VOCs + Fuel Oxygenates	LAB USE ONLY
1	SB-1-S		8/11/16	0900	TKP	S	5						2	1		X	X	X	DJ
2	SB-2-S		↓	1130															P39
3	SB-3-S		8/12/16	1050															14D4
4	SB-4-S		8/11/16	1305															4948
5	SB-5-S			1055															
6	SB-6-S			0940															
7	SB-7-S			1010															
8	SB-8-S-1			1405															
9	SB-8-S-2		↓	1355															
10	SB-9-S		8/12/16	0905															
11	SB-10-S		↓	1010	↓	↓	↓						↓	↓		↓	↓	↓	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

D.I. slurry voc vials frozen storage
Date: 8-15-16 Time: 1039 Initials: BJ

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT RJH
LABEL VERIFICATION RJ

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 TKP	8/12/16 1300	1 FEDEX	2 FEDEX	8-15-16 9:00	2 BJ
3		3	4		4
5		5			

Custody Seal # 540 [x] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [x] Cooler Temp: 24.3 °C IP

JC25831: Chain of Custody
Page 1 of 4

SGS ACCUTEST

Soil VOC Vial Tracking Log

JOB NUMBER: JC 25831

SAMPLE #	MeOH	MeOH	DIH2O / NaHSO4	DIH2O / NaHSO4
-1	937		343	344
-2	5734		113	114
-3	3840		4159	4160
-4	5738		345	346
-5	5737		119	120
-6	5732		347	348
-7	5735		115	116
-8	5736		117	118
-9	936		341	342
-10	935		339	340
-11	5733		111	112

All strike outs must be initialed & dated. A reason code applied if not a transcription error.

Form: SM087-01

Rev Date: 6/1/16

JC25831: Chain of Custody

Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: JC25831 **Client:** APEX **Project:** NORTHPORT GOVT. FACILITY

Date / Time Received: 8/15/2016 9:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 6780 9736 1073

Cooler Temps (Raw Measured) °C: Cooler 1: (24.3);

Cooler Temps (Corrected) °C: Cooler 1: (25.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☑
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☐		☑
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments 1) REC'D 1 8OZ JAR & 1 60 ML , SOIL, 1 MEOH & 2 DI VIALS -1 THRU -11 REC'D OUT OF HOLD. -1 & -2 & -4 THRU -9 COLLECTED 8/11/16 AL OTHERS 8/12/16

2) COOLER REC'D WITH A TEMP OF 24.3 DEG C IP, ICE BAGS ARE MELTED.

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC25831

CSR: Kelly **Response Date:** 8/15/2016

Response: Please proceed with all analysis.

JC25831: Chain of Custody
Page 4 of 4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	99%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	100%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.15	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.15	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.15	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.38	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.34	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	25	3.0	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.53	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.77	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.17	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	96%	68-124%
2037-26-5	Toluene-D8	97%	77-125%
460-00-4	4-Bromofluorobenzene	98%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	70-122%
17060-07-0	1,2-Dichloroethane-D4	117%	68-124%
2037-26-5	Toluene-D8	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.15	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.15	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.15	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.38	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.34	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	25	3.0	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.53	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.77	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.17	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	95%	68-124%
2037-26-5	Toluene-D8	98%	77-125%
460-00-4	4-Bromofluorobenzene	96%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	100%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	102%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2440	98	30-150
71-43-2	Benzene	2500	2490	100	77-122
108-86-1	Bromobenzene	2500	2410	96	80-122
74-97-5	Bromochloromethane	2500	2650	106	81-126
75-27-4	Bromodichloromethane	2500	2470	99	82-130
75-25-2	Bromoform	2500	2540	102	78-134
74-83-9	Bromomethane	2500	2160	86	56-141
78-93-3	2-Butanone (MEK)	2500	2630	105	61-139
104-51-8	n-Butylbenzene	2500	2350	94	69-127
135-98-8	sec-Butylbenzene	2500	2360	94	70-125
98-06-6	tert-Butylbenzene	2500	2480	99	70-126
56-23-5	Carbon tetrachloride	2500	2410	96	73-139
108-90-7	Chlorobenzene	2500	2490	100	79-120
75-00-3	Chloroethane	2500	2170	87	64-150
67-66-3	Chloroform	2500	2550	102	77-123
74-87-3	Chloromethane	2500	2160	86	50-140
95-49-8	o-Chlorotoluene	2500	2390	96	74-123
106-43-4	p-Chlorotoluene	2500	2390	96	73-121
108-20-3	Di-Isopropyl ether	2500	2730	109	71-130
96-12-8	1,2-Dibromo-3-chloropropane	2500	2460	98	70-128
124-48-1	Dibromochloromethane	2500	2640	106	82-129
106-93-4	1,2-Dibromoethane	2500	2540	102	83-125
95-50-1	1,2-Dichlorobenzene	2500	2380	95	79-118
541-73-1	1,3-Dichlorobenzene	2500	2300	92	76-119
106-46-7	1,4-Dichlorobenzene	2500	2370	95	75-118
75-71-8	Dichlorodifluoromethane	2500	1940	78	31-170
75-34-3	1,1-Dichloroethane	2500	2560	102	78-129
107-06-2	1,2-Dichloroethane	2500	2590	104	77-140
75-35-4	1,1-Dichloroethene	2500	2720	109	71-128
156-59-2	cis-1,2-Dichloroethene	2500	2450	98	73-123
156-60-5	trans-1,2-Dichloroethene	2500	2530	101	72-122
78-87-5	1,2-Dichloropropane	2500	2570	103	80-129
142-28-9	1,3-Dichloropropane	2500	2570	103	81-124
594-20-7	2,2-Dichloropropane	2500	2530	101	62-134
563-58-6	1,1-Dichloropropene	2500	2600	104	72-125
10061-01-5	cis-1,3-Dichloropropene	2500	2620	105	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	2500	2620	105	75-129
100-41-4	Ethylbenzene	2500	2490	100	75-121
87-68-3	Hexachlorobutadiene	2500	1930	77	64-134
98-82-8	Isopropylbenzene	2500	2520	101	70-126
99-87-6	p-Isopropyltoluene	2500	2410	96	70-127
1634-04-4	Methyl Tert Butyl Ether	5000	4990	100	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2820	113	73-141
74-95-3	Methylene bromide	2500	2570	103	83-129
75-09-2	Methylene chloride	2500	2540	102	71-124
91-20-3	Naphthalene	2500	2260	90	74-126
103-65-1	n-Propylbenzene	2500	2480	99	71-132
100-42-5	Styrene	2500	2610	104	79-125
75-65-0	Tert Butyl Alcohol	12500	12500	100	78-126
994-05-8	tert-Amyl Methyl Ether	2500	2430	97	76-124
637-92-3	tert-Butyl Ethyl Ether	2500	2680	107	74-128
630-20-6	1,1,1,2-Tetrachloroethane	2500	2500	100	81-124
79-34-5	1,1,2,2-Tetrachloroethane	2500	2470	99	72-121
127-18-4	Tetrachloroethene	2500	2500	100	70-135
108-88-3	Toluene	2500	2560	102	75-123
87-61-6	1,2,3-Trichlorobenzene	2500	1980	79	76-128
120-82-1	1,2,4-Trichlorobenzene	2500	2340	94	74-129
71-55-6	1,1,1-Trichloroethane	2500	2640	106	75-134
79-00-5	1,1,2-Trichloroethane	2500	2680	107	78-130
79-01-6	Trichloroethene	2500	2520	101	79-127
75-69-4	Trichlorofluoromethane	2500	2160	86	64-141
96-18-4	1,2,3-Trichloropropane	2500	2460	98	77-124
95-63-6	1,2,4-Trimethylbenzene	2500	2520	101	75-126
108-67-8	1,3,5-Trimethylbenzene	2500	2470	99	72-124
75-01-4	Vinyl chloride	2500	2260	90	57-136
	m,p-Xylene	5000	5030	101	75-122
95-47-6	o-Xylene	2500	2560	102	76-121
1330-20-7	Xylene (total)	7500	7580	101	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	101%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	41.4	83	30-150
71-43-2	Benzene	50	57.4	115	77-122
108-86-1	Bromobenzene	50	55.5	111	80-122
74-97-5	Bromochloromethane	50	54.8	110	81-126
75-27-4	Bromodichloromethane	50	55.8	112	82-130
75-25-2	Bromoform	50	54.9	110	78-134
74-83-9	Bromomethane	50	56.3	113	56-141
78-93-3	2-Butanone (MEK)	50	55.2	110	61-139
104-51-8	n-Butylbenzene	50	58.1	116	69-127
135-98-8	sec-Butylbenzene	50	62.2	124	70-125
98-06-6	tert-Butylbenzene	50	63.2	126	70-126
56-23-5	Carbon tetrachloride	50	63.1	126	73-139
108-90-7	Chlorobenzene	50	54.6	109	79-120
75-00-3	Chloroethane	50	57.7	115	64-150
67-66-3	Chloroform	50	55.1	110	77-123
74-87-3	Chloromethane	50	54.2	108	50-140
95-49-8	o-Chlorotoluene	50	57.5	115	74-123
106-43-4	p-Chlorotoluene	50	53.5	107	73-121
108-20-3	Di-Isopropyl ether	50	54.4	109	71-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.9	104	70-128
124-48-1	Dibromochloromethane	50	56.0	112	82-129
106-93-4	1,2-Dibromoethane	50	48.8	98	83-125
95-50-1	1,2-Dichlorobenzene	50	53.5	107	79-118
541-73-1	1,3-Dichlorobenzene	50	52.1	104	76-119
106-46-7	1,4-Dichlorobenzene	50	52.7	105	75-118
75-71-8	Dichlorodifluoromethane	50	44.4	89	31-170
75-34-3	1,1-Dichloroethane	50	56.4	113	78-129
107-06-2	1,2-Dichloroethane	50	57.6	115	77-140
75-35-4	1,1-Dichloroethene	50	57.7	115	71-128
156-59-2	cis-1,2-Dichloroethene	50	52.7	105	73-123
156-60-5	trans-1,2-Dichloroethene	50	55.9	112	72-122
78-87-5	1,2-Dichloropropane	50	54.7	109	80-129
142-28-9	1,3-Dichloropropane	50	52.4	105	81-124
594-20-7	2,2-Dichloropropane	50	58.7	117	62-134
563-58-6	1,1-Dichloropropene	50	59.5	119	72-125
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.1	106	75-129
100-41-4	Ethylbenzene	50	52.6	105	75-121
87-68-3	Hexachlorobutadiene	50	54.7	109	64-134
98-82-8	Isopropylbenzene	50	62.5	125	70-126
99-87-6	p-Isopropyltoluene	50	61.6	123	70-127
1634-04-4	Methyl Tert Butyl Ether	100	107	107	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.5	107	73-141
74-95-3	Methylene bromide	50	56.4	113	83-129
75-09-2	Methylene chloride	50	53.9	108	71-124
91-20-3	Naphthalene	50	49.0	98	74-126
103-65-1	n-Propylbenzene	50	59.3	119	71-132
100-42-5	Styrene	50	51.4	103	79-125
75-65-0	Tert Butyl Alcohol	250	257	103	78-126
994-05-8	tert-Amyl Methyl Ether	50	53.2	106	76-124
637-92-3	tert-Butyl Ethyl Ether	50	53.0	106	74-128
630-20-6	1,1,1,2-Tetrachloroethane	50	58.1	116	81-124
79-34-5	1,1,2,2-Tetrachloroethane	50	54.9	110	72-121
127-18-4	Tetrachloroethene	50	54.5	109	70-135
108-88-3	Toluene	50	55.4	111	75-123
87-61-6	1,2,3-Trichlorobenzene	50	53.1	106	76-128
120-82-1	1,2,4-Trichlorobenzene	50	55.5	111	74-129
71-55-6	1,1,1-Trichloroethane	50	65.6	131	75-134
79-00-5	1,1,2-Trichloroethane	50	53.3	107	78-130
79-01-6	Trichloroethene	50	61.2	122	79-127
75-69-4	Trichlorofluoromethane	50	54.0	108	64-141
96-18-4	1,2,3-Trichloropropane	50	52.8	106	77-124
95-63-6	1,2,4-Trimethylbenzene	50	56.1	112	75-126
108-67-8	1,3,5-Trimethylbenzene	50	58.5	117	72-124
75-01-4	Vinyl chloride	50	53.0	106	57-136
	m,p-Xylene	100	107	107	75-122
95-47-6	o-Xylene	50	55.8	112	76-121
1330-20-7	Xylene (total)	150	162	108	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	97%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	103%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2260	90	30-150
71-43-2	Benzene	2500	2520	101	77-122
108-86-1	Bromobenzene	2500	2630	105	80-122
74-97-5	Bromochloromethane	2500	2640	106	81-126
75-27-4	Bromodichloromethane	2500	2740	110	82-130
75-25-2	Bromoform	2500	2690	108	78-134
74-83-9	Bromomethane	2500	2330	93	56-141
78-93-3	2-Butanone (MEK)	2500	2720	109	61-139
104-51-8	n-Butylbenzene	2500	2670	107	69-127
135-98-8	sec-Butylbenzene	2500	2680	107	70-125
98-06-6	tert-Butylbenzene	2500	2670	107	70-126
56-23-5	Carbon tetrachloride	2500	3120	125	73-139
108-90-7	Chlorobenzene	2500	2570	103	79-120
75-00-3	Chloroethane	2500	2140	86	64-150
67-66-3	Chloroform	2500	2860	114	77-123
74-87-3	Chloromethane	2500	2230	89	50-140
95-49-8	o-Chlorotoluene	2500	2600	104	74-123
106-43-4	p-Chlorotoluene	2500	2570	103	73-121
108-20-3	Di-Isopropyl ether	2500	2520	101	71-130
96-12-8	1,2-Dibromo-3-chloropropane	2500	2520	101	70-128
124-48-1	Dibromochloromethane	2500	2860	114	82-129
106-93-4	1,2-Dibromoethane	2500	2620	105	83-125
95-50-1	1,2-Dichlorobenzene	2500	2560	102	79-118
541-73-1	1,3-Dichlorobenzene	2500	2500	100	76-119
106-46-7	1,4-Dichlorobenzene	2500	2510	100	75-118
75-71-8	Dichlorodifluoromethane	2500	2310	92	31-170
75-34-3	1,1-Dichloroethane	2500	2690	108	78-129
107-06-2	1,2-Dichloroethane	2500	3160	126	77-140
75-35-4	1,1-Dichloroethene	2500	2870	115	71-128
156-59-2	cis-1,2-Dichloroethene	2500	2480	99	73-123
156-60-5	trans-1,2-Dichloroethene	2500	2610	104	72-122
78-87-5	1,2-Dichloropropane	2500	2580	103	80-129
142-28-9	1,3-Dichloropropane	2500	2550	102	81-124
594-20-7	2,2-Dichloropropane	2500	3180	127	62-134
563-58-6	1,1-Dichloropropene	2500	2850	114	72-125
10061-01-5	cis-1,3-Dichloropropene	2500	2700	108	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	2500	2750	110	75-129
100-41-4	Ethylbenzene	2500	2530	101	75-121
87-68-3	Hexachlorobutadiene	2500	2820	113	64-134
98-82-8	Isopropylbenzene	2500	2760	110	70-126
99-87-6	p-Isopropyltoluene	2500	2810	112	70-127
1634-04-4	Methyl Tert Butyl Ether	5000	4960	99	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2800	112	73-141
74-95-3	Methylene bromide	2500	2890	116	83-129
75-09-2	Methylene chloride	2500	2430	97	71-124
91-20-3	Naphthalene	2500	2390	96	74-126
103-65-1	n-Propylbenzene	2500	2730	109	71-132
100-42-5	Styrene	2500	2420	97	79-125
75-65-0	Tert Butyl Alcohol	12500	13100	105	78-126
994-05-8	tert-Amyl Methyl Ether	2500	2650	106	76-124
637-92-3	tert-Butyl Ethyl Ether	2500	2590	104	74-128
630-20-6	1,1,1,2-Tetrachloroethane	2500	2860	114	81-124
79-34-5	1,1,2,2-Tetrachloroethane	2500	2420	97	72-121
127-18-4	Tetrachloroethene	2500	2860	114	70-135
108-88-3	Toluene	2500	2480	99	75-123
87-61-6	1,2,3-Trichlorobenzene	2500	2490	100	76-128
120-82-1	1,2,4-Trichlorobenzene	2500	2570	103	74-129
71-55-6	1,1,1-Trichloroethane	2500	3080	123	75-134
79-00-5	1,1,2-Trichloroethane	2500	2420	97	78-130
79-01-6	Trichloroethene	2500	2650	106	79-127
75-69-4	Trichlorofluoromethane	2500	2660	106	64-141
96-18-4	1,2,3-Trichloropropane	2500	2710	108	77-124
95-63-6	1,2,4-Trimethylbenzene	2500	2670	107	75-126
108-67-8	1,3,5-Trimethylbenzene	2500	2680	107	72-124
75-01-4	Vinyl chloride	2500	2280	91	57-136
	m,p-Xylene	5000	5150	103	75-122
95-47-6	o-Xylene	2500	2590	104	76-121
1330-20-7	Xylene (total)	7500	7730	103	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	70-122%
17060-07-0	1,2-Dichloroethane-D4	122%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	42.6	85	30-150
71-43-2	Benzene	50	54.7	109	77-122
108-86-1	Bromobenzene	50	53.6	107	80-122
74-97-5	Bromochloromethane	50	53.6	107	81-126
75-27-4	Bromodichloromethane	50	54.0	108	82-130
75-25-2	Bromoform	50	53.4	107	78-134
74-83-9	Bromomethane	50	53.1	106	56-141
78-93-3	2-Butanone (MEK)	50	47.0	94	61-139
104-51-8	n-Butylbenzene	50	55.1	110	69-127
135-98-8	sec-Butylbenzene	50	58.0	116	70-125
98-06-6	tert-Butylbenzene	50	60.2	120	70-126
56-23-5	Carbon tetrachloride	50	60.1	120	73-139
108-90-7	Chlorobenzene	50	52.4	105	79-120
75-00-3	Chloroethane	50	56.0	112	64-150
67-66-3	Chloroform	50	53.6	107	77-123
74-87-3	Chloromethane	50	49.9	100	50-140
95-49-8	o-Chlorotoluene	50	54.2	108	74-123
106-43-4	p-Chlorotoluene	50	50.9	102	73-121
108-20-3	Di-Isopropyl ether	50	49.3	99	71-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.3	103	70-128
124-48-1	Dibromochloromethane	50	54.2	108	82-129
106-93-4	1,2-Dibromoethane	50	47.9	96	83-125
95-50-1	1,2-Dichlorobenzene	50	52.4	105	79-118
541-73-1	1,3-Dichlorobenzene	50	50.4	101	76-119
106-46-7	1,4-Dichlorobenzene	50	51.6	103	75-118
75-71-8	Dichlorodifluoromethane	50	41.0	82	31-170
75-34-3	1,1-Dichloroethane	50	54.8	110	78-129
107-06-2	1,2-Dichloroethane	50	57.9	116	77-140
75-35-4	1,1-Dichloroethene	50	59.4	119	71-128
156-59-2	cis-1,2-Dichloroethene	50	51.1	102	73-123
156-60-5	trans-1,2-Dichloroethene	50	55.2	110	72-122
78-87-5	1,2-Dichloropropane	50	54.6	109	80-129
142-28-9	1,3-Dichloropropane	50	50.7	101	81-124
594-20-7	2,2-Dichloropropane	50	56.3	113	62-134
563-58-6	1,1-Dichloropropene	50	58.4	117	72-125
10061-01-5	cis-1,3-Dichloropropene	50	53.7	107	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	51.0	102	75-129
100-41-4	Ethylbenzene	50	50.3	101	75-121
87-68-3	Hexachlorobutadiene	50	54.3	109	64-134
98-82-8	Isopropylbenzene	50	58.1	116	70-126
99-87-6	p-Isopropyltoluene	50	57.8	116	70-127
1634-04-4	Methyl Tert Butyl Ether	100	103	103	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	50	49.0	98	73-141
74-95-3	Methylene bromide	50	56.5	113	83-129
75-09-2	Methylene chloride	50	55.0	110	71-124
91-20-3	Naphthalene	50	48.8	98	74-126
103-65-1	n-Propylbenzene	50	55.5	111	71-132
100-42-5	Styrene	50	49.2	98	79-125
75-65-0	Tert Butyl Alcohol	250	237	95	78-126
994-05-8	tert-Amyl Methyl Ether	50	48.9	98	76-124
637-92-3	tert-Butyl Ethyl Ether	50	48.6	97	74-128
630-20-6	1,1,1,2-Tetrachloroethane	50	55.7	111	81-124
79-34-5	1,1,2,2-Tetrachloroethane	50	52.0	104	72-121
127-18-4	Tetrachloroethene	50	52.9	106	70-135
108-88-3	Toluene	50	52.5	105	75-123
87-61-6	1,2,3-Trichlorobenzene	50	52.7	105	76-128
120-82-1	1,2,4-Trichlorobenzene	50	53.9	108	74-129
71-55-6	1,1,1-Trichloroethane	50	63.0	126	75-134
79-00-5	1,1,2-Trichloroethane	50	50.8	102	78-130
79-01-6	Trichloroethene	50	60.3	121	79-127
75-69-4	Trichlorofluoromethane	50	51.9	104	64-141
96-18-4	1,2,3-Trichloropropane	50	52.2	104	77-124
95-63-6	1,2,4-Trimethylbenzene	50	52.4	105	75-126
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	72-124
75-01-4	Vinyl chloride	50	49.9	100	57-136
	m,p-Xylene	100	102	102	75-122
95-47-6	o-Xylene	50	52.1	104	76-121
1330-20-7	Xylene (total)	150	154	103	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	99%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	102%	72-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		63	36.3	58	10-180
71-43-2	Benzene	ND		63	63.0	100	48-136
108-86-1	Bromobenzene	ND		63	63.0	100	37-145
74-97-5	Bromochloromethane	ND		63	56.9	90	53-137
75-27-4	Bromodichloromethane	ND		63	59.4	94	50-145
75-25-2	Bromoform	ND		63	54.7	87	39-148
74-83-9	Bromomethane	ND		63	60.9	97	12-156
78-93-3	2-Butanone (MEK)	ND		63	40.5	64	26-164
104-51-8	n-Butylbenzene	ND		63	63.3	100	10-156
135-98-8	sec-Butylbenzene	ND		63	68.8	109	23-151
98-06-6	tert-Butylbenzene	ND		63	72.1	114	30-149
56-23-5	Carbon tetrachloride	ND		63	64.8	103	43-152
108-90-7	Chlorobenzene	ND		63	63.5	101	38-144
75-00-3	Chloroethane	ND		63	61.9	98	26-154
67-66-3	Chloroform	ND		63	62.0	98	52-134
74-87-3	Chloromethane	ND		63	55.9	89	41-142
95-49-8	o-Chlorotoluene	ND		63	66.7	106	34-147
106-43-4	p-Chlorotoluene	ND		63	61.2	97	34-143
108-20-3	Di-Isopropyl ether	ND		63	60.2	96	54-135
96-12-8	1,2-Dibromo-3-chloropropane	ND		63	48.1	76	29-145
124-48-1	Dibromochloromethane	ND		63	60.3	96	49-142
106-93-4	1,2-Dibromoethane	ND		63	51.0	81	46-139
95-50-1	1,2-Dichlorobenzene	ND		63	60.0	95	30-144
541-73-1	1,3-Dichlorobenzene	ND		63	60.1	95	28-148
106-46-7	1,4-Dichlorobenzene	ND		63	60.5	96	30-142
75-71-8	Dichlorodifluoromethane	ND		63	44.6	71	31-161
75-34-3	1,1-Dichloroethane	ND		63	63.0	100	54-137
107-06-2	1,2-Dichloroethane	ND		63	59.5	94	56-140
75-35-4	1,1-Dichloroethene	ND		63	63.1	100	41-143
156-59-2	cis-1,2-Dichloroethene	ND		63	58.6	93	45-137
156-60-5	trans-1,2-Dichloroethene	ND		63	62.6	99	42-141
78-87-5	1,2-Dichloropropane	ND		63	62.2	99	53-139
142-28-9	1,3-Dichloropropane	ND		63	55.2	88	51-134
594-20-7	2,2-Dichloropropane	ND		63	58.0	92	26-151
563-58-6	1,1-Dichloropropene	ND		63	63.4	101	42-144
10061-01-5	cis-1,3-Dichloropropene	ND		63	59.3	94	41-144

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		63	53.6	85	36-148
100-41-4	Ethylbenzene	ND		63	60.9	97	34-145
87-68-3	Hexachlorobutadiene	ND		63	60.1	95	10-163
98-82-8	Isopropylbenzene	ND		63	70.0	111	36-145
99-87-6	p-Isopropyltoluene	ND		63	68.7	109	21-153
1634-04-4	Methyl Tert Butyl Ether	ND		126	111	88	54-129
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		63	47.4	75	33-154
74-95-3	Methylene bromide	ND		63	58.4	93	49-139
75-09-2	Methylene chloride	0.65	J	63	60.6	95	47-133
91-20-3	Naphthalene	ND		63	47.8	76	12-160
103-65-1	n-Propylbenzene	ND		63	66.3	105	26-148
100-42-5	Styrene	ND		63	58.9	93	32-156
75-65-0	Tert Butyl Alcohol	ND		315	359	114	57-148
994-05-8	tert-Amyl Methyl Ether	ND		63	56.0	89	56-129
637-92-3	tert-Butyl Ethyl Ether	ND		63	57.5	91	58-132
630-20-6	1,1,1,2-Tetrachloroethane	ND		63	65.3	104	47-144
79-34-5	1,1,2,2-Tetrachloroethane	ND		63	54.2	86	31-149
127-18-4	Tetrachloroethene	ND		63	61.8	98	34-163
108-88-3	Toluene	ND		63	60.9	97	40-141
87-61-6	1,2,3-Trichlorobenzene	ND		63	56.1	89	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		63	60.2	96	14-156
71-55-6	1,1,1-Trichloroethane	ND		63	69.5	110	48-144
79-00-5	1,1,2-Trichloroethane	ND		63	54.2	86	43-146
79-01-6	Trichloroethene	ND		63	67.0	106	42-152
75-69-4	Trichlorofluoromethane	ND		63	53.6	85	39-153
96-18-4	1,2,3-Trichloropropane	ND		63	52.3	83	36-153
95-63-6	1,2,4-Trimethylbenzene	ND		63	64.1	102	23-152
108-67-8	1,3,5-Trimethylbenzene	ND		63	66.3	105	26-150
75-01-4	Vinyl chloride	ND		63	54.1	86	38-149
	m,p-Xylene	ND		126	124	98	32-148
95-47-6	o-Xylene	ND		63	64.1	102	36-145
1330-20-7	Xylene (total)	ND		189	188	99	34-146

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	MS	JC25831-2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	70-122%
17060-07-0	1,2-Dichloroethane-D4	85%	100%	68-124%
2037-26-5	Toluene-D8	100%	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	97%	72-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		54.9	38.0	69	10-180
71-43-2	Benzene	ND		54.9	59.6	109	48-136
108-86-1	Bromobenzene	ND		54.9	56.3	103	37-145
74-97-5	Bromochloromethane	ND		54.9	55.0	100	53-137
75-27-4	Bromodichloromethane	ND		54.9	54.9	100	50-145
75-25-2	Bromoform	ND		54.9	50.7	92	39-148
74-83-9	Bromomethane	ND		54.9	57.5	105	12-156
78-93-3	2-Butanone (MEK)	ND		54.9	49.8	91	26-164
104-51-8	n-Butylbenzene	0.34	J	54.9	63.6	115	10-156
135-98-8	sec-Butylbenzene	1.1	J	54.9	67.0	120	23-151
98-06-6	tert-Butylbenzene	ND		54.9	69.1	126	30-149
56-23-5	Carbon tetrachloride	ND		54.9	59.5	108	43-152
108-90-7	Chlorobenzene	ND		54.9	56.5	103	38-144
75-00-3	Chloroethane	ND		54.9	59.6	109	26-154
67-66-3	Chloroform	ND		54.9	57.3	104	52-134
74-87-3	Chloromethane	ND		54.9	49.2	90	41-142
95-49-8	o-Chlorotoluene	ND		54.9	60.0	109	34-147
106-43-4	p-Chlorotoluene	ND		54.9	56.3	103	34-143
108-20-3	Di-Isopropyl ether	ND		54.9	55.8	102	54-135
96-12-8	1,2-Dibromo-3-chloropropane	ND		54.9	48.9	89	29-145
124-48-1	Dibromochloromethane	ND		54.9	53.3	97	49-142
106-93-4	1,2-Dibromoethane	ND		54.9	45.1	82	46-139
95-50-1	1,2-Dichlorobenzene	ND		54.9	56.4	103	30-144
541-73-1	1,3-Dichlorobenzene	ND		54.9	54.6	99	28-148
106-46-7	1,4-Dichlorobenzene	ND		54.9	54.3	99	30-142
75-71-8	Dichlorodifluoromethane	ND		54.9	36.4	66	31-161
75-34-3	1,1-Dichloroethane	ND		54.9	60.4	110	54-137
107-06-2	1,2-Dichloroethane	ND		54.9	54.6	99	56-140
75-35-4	1,1-Dichloroethene	ND		54.9	60.3	110	41-143
156-59-2	cis-1,2-Dichloroethene	ND		54.9	54.9	100	45-137
156-60-5	trans-1,2-Dichloroethene	ND		54.9	59.8	109	42-141
78-87-5	1,2-Dichloropropane	ND		54.9	56.4	103	53-139
142-28-9	1,3-Dichloropropane	ND		54.9	49.8	91	51-134
594-20-7	2,2-Dichloropropane	ND		54.9	55.1	100	26-151
563-58-6	1,1-Dichloropropene	ND		54.9	58.4	106	42-144
10061-01-5	cis-1,3-Dichloropropene	ND		54.9	55.2	101	41-144

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		54.9	50.0	91	36-148
100-41-4	Ethylbenzene	0.61	J	54.9	56.0	101	34-145
87-68-3	Hexachlorobutadiene	ND		54.9	60.1	110	10-163
98-82-8	Isopropylbenzene	0.30	J	54.9	65.8	119	36-145
99-87-6	p-Isopropyltoluene	1.5	J	54.9	69.0	123	21-153
1634-04-4	Methyl Tert Butyl Ether	ND		110	105	96	54-129
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		54.9	47.1	86	33-154
74-95-3	Methylene bromide	ND		54.9	53.2	97	49-139
75-09-2	Methylene chloride	1.1	J	54.9	57.8	103	47-133
91-20-3	Naphthalene	23.5		54.9	48.3	45	12-160
103-65-1	n-Propylbenzene	0.58	J	54.9	62.3	112	26-148
100-42-5	Styrene	ND		54.9	53.2	97	32-156
75-65-0	Tert Butyl Alcohol	ND		274	287	105	57-148
994-05-8	tert-Amyl Methyl Ether	ND		54.9	51.5	94	56-129
637-92-3	tert-Butyl Ethyl Ether	ND		54.9	52.8	96	58-132
630-20-6	1,1,1,2-Tetrachloroethane	ND		54.9	60.7	111	47-144
79-34-5	1,1,2,2-Tetrachloroethane	ND		54.9	51.1	93	31-149
127-18-4	Tetrachloroethene	ND		54.9	54.8	100	34-163
108-88-3	Toluene	0.47	J	54.9	56.6	102	40-141
87-61-6	1,2,3-Trichlorobenzene	2.0	J	54.9	52.9	93	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		54.9	60.9	111	14-156
71-55-6	1,1,1-Trichloroethane	ND		54.9	65.8	120	48-144
79-00-5	1,1,2-Trichloroethane	ND		54.9	50.1	91	43-146
79-01-6	Trichloroethene	ND		54.9	62.6	114	42-152
75-69-4	Trichlorofluoromethane	ND		54.9	47.0	86	39-153
96-18-4	1,2,3-Trichloropropane	ND		54.9	47.8	87	36-153
95-63-6	1,2,4-Trimethylbenzene	91.8		54.9	62.6	-53* [a]	23-152
108-67-8	1,3,5-Trimethylbenzene	70.3		54.9	64.2	-11* [a]	26-150
75-01-4	Vinyl chloride	ND		54.9	50.0	91	38-149
	m,p-Xylene	6.6		110	113	97	32-148
95-47-6	o-Xylene	20.6		54.9	59.9	72	36-145
1330-20-7	Xylene (total)	27.2		165	173	89	34-146

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	MS	JC25831-9	Limits
1868-53-7	Dibromofluoromethane	99%	104%	70-122%
17060-07-0	1,2-Dichloroethane-D4	87%	107%	68-124%
2037-26-5	Toluene-D8	100%	104%	77-125%
460-00-4	4-Bromofluorobenzene	101%	88%	72-130%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	JC26348-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2590	2080	80	2590	1910	74	9	10-180/33
71-43-2	Benzene	ND		2590	2390	92	2590	2350	91	2	48-136/30
108-86-1	Bromobenzene	ND		2590	2340	90	2590	2320	90	1	37-145/28
74-97-5	Bromochloromethane	ND		2590	2550	99	2590	2500	97	2	53-137/26
75-27-4	Bromodichloromethane	ND		2590	2400	93	2590	2360	91	2	50-145/28
75-25-2	Bromoform	ND		2590	2510	97	2590	2470	96	2	39-148/24
74-83-9	Bromomethane	ND		2590	1210	47	2590	1190	46	2	12-156/32
78-93-3	2-Butanone (MEK)	ND		2590	2470	96	2590	2390	92	3	26-164/30
104-51-8	n-Butylbenzene	ND		2590	2160	84	2590	2180	84	1	10-156/37
135-98-8	sec-Butylbenzene	ND		2590	2160	84	2590	2170	84	0	23-151/34
98-06-6	tert-Butylbenzene	ND		2590	2290	89	2590	2300	89	0	30-149/34
56-23-5	Carbon tetrachloride	ND		2590	2200	85	2590	2170	84	1	43-152/31
108-90-7	Chlorobenzene	ND		2590	2460	95	2590	2400	93	2	38-144/29
75-00-3	Chloroethane	ND		2590	1020	39	2590	1010	39	1	26-154/34
67-66-3	Chloroform	ND		2590	2480	96	2590	2460	95	1	52-134/27
74-87-3	Chloromethane	ND		2590	2260	87	2590	2280	88	1	41-142/28
95-49-8	o-Chlorotoluene	ND		2590	2270	88	2590	2260	87	0	34-147/29
106-43-4	p-Chlorotoluene	ND		2590	2310	89	2590	2290	89	1	34-143/32
108-20-3	Di-Isopropyl ether	ND		2590	2670	103	2590	2660	103	0	54-135/25
96-12-8	1,2-Dibromo-3-chloropropane	ND		2590	2410	93	2590	2420	94	0	29-145/26
124-48-1	Dibromochloromethane	ND		2590	2560	99	2590	2500	97	2	49-142/24
106-93-4	1,2-Dibromoethane	ND		2590	2500	97	2590	2460	95	2	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		2590	2290	89	2590	2290	89	0	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		2590	2220	86	2590	2210	85	0	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		2590	2270	88	2590	2260	87	0	30-142/31
75-71-8	Dichlorodifluoromethane	ND		2590	1490	58	2590	1420	55	5	31-161/28
75-34-3	1,1-Dichloroethane	ND		2590	2480	96	2590	2460	95	1	54-137/28
107-06-2	1,2-Dichloroethane	ND		2590	2520	97	2590	2480	96	2	56-140/24
75-35-4	1,1-Dichloroethene	ND		2590	2570	99	2590	2540	98	1	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		2590	2360	91	2590	2360	91	0	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		2590	2450	95	2590	2440	94	0	42-141/30
78-87-5	1,2-Dichloropropane	ND		2590	2540	98	2590	2470	96	3	53-139/27
142-28-9	1,3-Dichloropropane	ND		2590	2560	99	2590	2520	97	2	51-134/24
594-20-7	2,2-Dichloropropane	ND		2590	2370	92	2590	2320	90	2	26-151/29
563-58-6	1,1-Dichloropropene	ND		2590	2420	94	2590	2400	93	1	42-144/32
10061-01-5	cis-1,3-Dichloropropene	ND		2590	2540	98	2590	2480	96	2	41-144/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	JC26348-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		2590	2590	100	2590	2470	96	5	36-148/27
100-41-4	Ethylbenzene	ND		2590	2400	93	2590	2370	92	1	34-145/29
87-68-3	Hexachlorobutadiene	ND		2590	1790	69	2590	1820	70	2	10-163/39
98-82-8	Isopropylbenzene	ND		2590	2350	91	2590	2360	91	0	36-145/33
99-87-6	p-Isopropyltoluene	ND		2590	2230	86	2590	2230	86	0	21-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		5170	4920	95	5170	4890	95	1	54-129/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2590	2950	114	2590	2910	113	1	33-154/29
74-95-3	Methylene bromide	ND		2590	2510	97	2590	2460	95	2	49-139/24
75-09-2	Methylene chloride	ND		2590	2480	96	2590	2460	95	1	47-133/25
91-20-3	Naphthalene	ND		2590	2220	86	2590	2310	89	4	12-160/33
103-65-1	n-Propylbenzene	ND		2590	2330	90	2590	2330	90	0	26-148/33
100-42-5	Styrene	ND		2590	2590	100	2590	2540	98	2	32-156/31
75-65-0	Tert Butyl Alcohol	ND		12900	13100	101	12900	12900	100	2	57-148/25
994-05-8	tert-Amyl Methyl Ether	ND		2590	2410	93	2590	2390	92	1	56-129/23
637-92-3	tert-Butyl Ethyl Ether	ND		2590	2620	101	2590	2590	100	1	58-132/25
630-20-6	1,1,1,2-Tetrachloroethane	ND		2590	2420	94	2590	2400	93	1	47-144/26
79-34-5	1,1,2,2-Tetrachloroethane	ND		2590	2410	93	2590	2380	92	1	31-149/25
127-18-4	Tetrachloroethene	ND		2590	2900	112	2590	3120	121	7	34-163/31
108-88-3	Toluene	ND		2590	2490	96	2590	2380	92	5	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		2590	1940	75	2590	2030	79	5	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		2590	2220	86	2590	2260	87	2	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		2590	2490	96	2590	2470	96	1	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		2590	2640	102	2590	2510	97	5	43-146/27
79-01-6	Trichloroethene	ND		2590	2410	93	2590	2370	92	2	42-152/29
75-69-4	Trichlorofluoromethane	ND		2590	1780	69	2590	1770	68	1	39-153/27
96-18-4	1,2,3-Trichloropropane	ND		2590	2470	96	2590	2470	96	0	36-153/26
95-63-6	1,2,4-Trimethylbenzene	ND		2590	2380	92	2590	2380	92	0	23-152/31
108-67-8	1,3,5-Trimethylbenzene	ND		2590	2310	89	2590	2300	89	0	26-150/32
75-01-4	Vinyl chloride	ND		2590	2000	77	2590	2000	77	0	38-149/29
	m,p-Xylene	ND		5170	4860	94	5170	4780	92	2	32-148/30
95-47-6	o-Xylene	ND		2590	2490	96	2590	2460	95	1	36-145/30
1330-20-7	Xylene (total)	ND		7760	7350	95	7760	7240	93	2	34-146/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries	MS	MSD	JC26348-1A	Limits
1868-53-7	Dibromofluoromethane	98%	99%	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	100%	68-124%
2037-26-5	Toluene-D8	101%	100%	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	103%	102%	72-130%

(a) Sample prepared from intact soil per client's request.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	JC25831-10 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND [a]		7190	6310	88	7190	5800	81	8	10-180/33
71-43-2	Benzene	ND [a]		7190	7510	104	7190	6960	97	8	48-136/30
108-86-1	Bromobenzene	ND [a]		7190	7480	104	7190	7600	106	2	37-145/28
74-97-5	Bromochloromethane	ND [a]		7190	7520	105	7190	7640	106	2	53-137/26
75-27-4	Bromodichloromethane	ND [a]		7190	8070	112	7190	8230	115	2	50-145/28
75-25-2	Bromoform	ND [a]		7190	7400	103	7190	7150	99	3	39-148/24
74-83-9	Bromomethane	ND [a]		7190	7110	99	7190	7280	101	2	12-156/32
78-93-3	2-Butanone (MEK)	ND [a]		7190	6970	97	7190	6770	94	3	26-164/30
104-51-8	n-Butylbenzene	27700 [a]		7190	34400	93	7190	35000	102	2	10-156/37
135-98-8	sec-Butylbenzene	17300 [a]		7190	24200	96	7190	24500	100	1	23-151/34
98-06-6	tert-Butylbenzene	533 [a]		7190	7750	100	7190	7880	102	2	30-149/34
56-23-5	Carbon tetrachloride	ND [a]		7190	9680	135	7190	8990	125	7	43-152/31
108-90-7	Chlorobenzene	ND [a]		7190	7910	110	7190	8000	111	1	38-144/29
75-00-3	Chloroethane	ND [a]		7190	5970	83	7190	6240	87	4	26-154/34
67-66-3	Chloroform	ND [a]		7190	8110	113	7190	8040	112	1	52-134/27
74-87-3	Chloromethane	ND [a]		7190	6000	83	7190	6190	86	3	41-142/28
95-49-8	o-Chlorotoluene	ND [a]		7190	7560	105	7190	7530	105	0	34-147/29
106-43-4	p-Chlorotoluene	ND [a]		7190	7310	102	7190	7320	102	0	34-143/32
108-20-3	Di-Isopropyl ether	ND [a]		7190	7520	105	7190	7520	105	0	54-135/25
96-12-8	1,2-Dibromo-3-chloropropane	ND [a]		7190	5560	77	7190	5470	76	2	29-145/26
124-48-1	Dibromochloromethane	ND [a]		7190	7420	103	7190	7390	103	0	49-142/24
106-93-4	1,2-Dibromoethane	ND [a]		7190	6900	96	7190	6880	96	0	46-139/24
95-50-1	1,2-Dichlorobenzene	ND [a]		7190	6550	91	7190	6620	92	1	30-144/30
541-73-1	1,3-Dichlorobenzene	ND [a]		7190	6930	96	7190	6950	97	0	28-148/31
106-46-7	1,4-Dichlorobenzene	ND [a]		7190	6960	97	7190	7040	98	1	30-142/31
75-71-8	Dichlorodifluoromethane	ND [a]		7190	6360	88	7190	6290	88	1	31-161/28
75-34-3	1,1-Dichloroethane	ND [a]		7190	7870	110	7190	7760	108	1	54-137/28
107-06-2	1,2-Dichloroethane	ND [a]		7190	9070	126	7190	8420	117	7	56-140/24
75-35-4	1,1-Dichloroethene	ND [a]		7190	8660	120	7190	8430	117	3	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND [a]		7190	7300	102	7190	7310	102	0	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND [a]		7190	7840	109	7190	7770	108	1	42-141/30
78-87-5	1,2-Dichloropropane	ND [a]		7190	7420	103	7190	7510	104	1	53-139/27
142-28-9	1,3-Dichloropropane	ND [a]		7190	6510	91	7190	6370	89	2	51-134/24
594-20-7	2,2-Dichloropropane	ND [a]		7190	9540	133	7190	9060	126	5	26-151/29
563-58-6	1,1-Dichloropropene	ND [a]		7190	8290	115	7190	7820	109	6	42-144/32
10061-01-5	cis-1,3-Dichloropropene	ND [a]		7190	7750	108	7190	7920	110	2	41-144/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	JC25831-10 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND [a]		7190	8120	113	7190	8210	114	1	36-148/27
100-41-4	Ethylbenzene	10600 [a]		7190	17700	99	7190	17700	99	0	34-145/29
87-68-3	Hexachlorobutadiene	ND [a]		7190	4810	67	7190	5010	70	4	10-163/39
98-82-8	Isopropylbenzene	7510 [a]		7190	15100	106	7190	15000	104	1	36-145/33
99-87-6	p-Isopropyltoluene	15700 [a]		7190	23000	102	7190	23100	103	0	21-153/33
1634-04-4	Methyl Tert Butyl Ether	ND [a]		14400	14600	102	14400	14300	99	2	54-129/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND [a]		7190	8040	112	7190	7910	110	2	33-154/29
74-95-3	Methylene bromide	ND [a]		7190	8270	115	7190	8310	116	0	49-139/24
75-09-2	Methylene chloride	ND [a]		7190	7620	106	7190	7560	105	1	47-133/25
91-20-3	Naphthalene	16900 [a]		7190	20600	51	7190	20000	43	3	12-160/33
103-65-1	n-Propylbenzene	21400 [a]		7190	30000	120	7190	30000	120	0	26-148/33
100-42-5	Styrene	ND [a]		7190	8210	114	7190	8120	113	1	32-156/31
75-65-0	Tert Butyl Alcohol	ND [a]		35900	29400	82	35900	29300	82	0	57-148/25
994-05-8	tert-Amyl Methyl Ether	ND [a]		7190	8000	111	7190	7980	111	0	56-129/23
637-92-3	tert-Butyl Ethyl Ether	ND [a]		7190	7700	107	7190	7630	106	1	58-132/25
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]		7190	7670	107	7190	7550	105	2	47-144/26
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		7190	8180	114	7190	8140	113	0	31-149/25
127-18-4	Tetrachloroethene	ND [a]		7190	7450	104	7190	7380	103	1	34-163/31
108-88-3	Toluene	1890 [a]		7190	9430	105	7190	9520	106	1	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND [a]		7190	3410	47	7190	3450	48	1	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND [a]		7190	4300	60	7190	4180	58	3	14-156/36
71-55-6	1,1,1-Trichloroethane	ND [a]		7190	8690	121	7190	8670	121	0	48-144/29
79-00-5	1,1,2-Trichloroethane	ND [a]		7190	8700	121	7190	7710	107	12	43-146/27
79-01-6	Trichloroethene	ND [a]		7190	7620	106	7190	7570	105	1	42-152/29
75-69-4	Trichlorofluoromethane	ND [a]		7190	7840	109	7190	8070	112	3	39-153/27
96-18-4	1,2,3-Trichloropropane	ND [a]		7190	11700	163* [b]	7190	11700	163* [b]	0	36-153/26
95-63-6	1,2,4-Trimethylbenzene	151000		7190	149000	-28* [c]	7190	150000	-14* [c]	1	23-152/31
108-67-8	1,3,5-Trimethylbenzene	53100		7190	57900	67	7190	59600	90	3	26-150/32
75-01-4	Vinyl chloride	ND [a]		7190	6290	88	7190	6460	90	3	38-149/29
	m,p-Xylene	50100 [a]		14400	66300	113	14400	65300	106	2	32-148/30
95-47-6	o-Xylene	28800		7190	37400	120	7190	36800	111	2	36-145/30
1330-20-7	Xylene (total)	78900		21600	104000	116	21600	102000	107	2	34-146/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries	MS	MSD	JC25831-10	JC25831-10	Limits
1868-53-7	Dibromofluoromethane	111%	111%	112%	110%	70-122%
17060-07-0	1,2-Dichloroethane-D4	119%	115%	119%	115%	68-124%
2037-26-5	Toluene-D8	113%	113%	97%	113%	77-125%
460-00-4	4-Bromofluorobenzene	101%	104%	93%	99%	72-130%

(a) Result is from Run #2.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-3 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	23.6		ND		200* [a]	35
71-43-2	Benzene	ND		ND		nc	17
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-3 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	23
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	22
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	37
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	16
100-42-5	Styrene	0.28	J	ND		200* [a]	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	DUP	JC25831-3	Limits
1868-53-7	Dibromofluoromethane	103%	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	68-124%
2037-26-5	Toluene-D8	99%	99%	77-125%
460-00-4	4-Bromofluorobenzene	97%	96%	72-130%

(a) High RPD possibly due to sample analyzed from different vials.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-11 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	35
71-43-2	Benzene	ND		ND		nc	17
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-11 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	23
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	22
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	0.69	J	0.65	J	6	37
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	16
100-42-5	Styrene	ND		ND		nc	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	DUP	JC25831-11	Limits
1868-53-7	Dibromofluoromethane	100%	105%	70-122%
17060-07-0	1,2-Dichloroethane-D4	98%	102%	68-124%
2037-26-5	Toluene-D8	98%	99%	77-125%
460-00-4	4-Bromofluorobenzene	98%	96%	72-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9850-BFB
Lab File ID: D242223.D
Instrument ID: GCMSD
Injection Date: 08/06/16
Injection Time: 16:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13508	15.8		Pass
75	30.0 - 60.0% of mass 95	38013	44.6		Pass
95	Base peak, 100% relative abundance	85266	100.0		Pass
96	5.0 - 9.0% of mass 95	5703	6.69		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	81720	95.8		Pass
175	5.0 - 9.0% of mass 174	5883	6.90	(7.20) [a]	Pass
176	95.0 - 101.0% of mass 174	78992	92.6	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5245	6.15	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9850-IC9850	D242224.D	08/06/16	16:58	00:43	Initial cal 0.2
VD9850-IC9850	D242225.D	08/06/16	17:28	01:13	Initial cal 0.5
VD9850-IC9850	D242226.D	08/06/16	17:59	01:44	Initial cal 1
VD9850-IC9850	D242227.D	08/06/16	18:30	02:15	Initial cal 2
VD9850-IC9850	D242228.D	08/06/16	19:00	02:45	Initial cal 5
VD9850-IC9850	D242229.D	08/06/16	19:31	03:16	Initial cal 10
VD9850-IC9850	D242230.D	08/06/16	20:01	03:46	Initial cal 20
VD9850-ICC9850	D242231.D	08/06/16	20:32	04:17	Initial cal 50
VD9850-IC9850	D242232.D	08/06/16	21:03	04:48	Initial cal 100
VD9850-IC9850	D242233.D	08/06/16	21:33	05:18	Initial cal 200
VD9850-ICV9850	D242236.D	08/06/16	23:04	06:49	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9865-BFB
Lab File ID: D242678.D
Instrument ID: GCMSD
Injection Date: 08/24/16
Injection Time: 06:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15723	15.5		Pass
75	30.0 - 60.0% of mass 95	45477	44.8		Pass
95	Base peak, 100% relative abundance	101536	100.0		Pass
96	5.0 - 9.0% of mass 95	7205	7.10		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	97320	95.8		Pass
175	5.0 - 9.0% of mass 174	7210	7.10	(7.41) [a]	Pass
176	95.0 - 101.0% of mass 174	95757	94.3	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6226	6.13	(6.50) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9865-CC9850	D242679.D	08/24/16	07:33	00:37	Continuing cal 20
VD9865-MB	D242681.D	08/24/16	08:35	01:39	Method Blank
ZZZZZZ	D242681A.D	08/24/16	08:35	01:39	(unrelated sample)
VD9865-BS	D242682.D	08/24/16	09:05	02:09	Blank Spike
ZZZZZZ	D242684.D	08/24/16	10:06	03:10	(unrelated sample)
JC25831-5	D242685.D	08/24/16	10:36	03:40	SB-5-S
ZZZZZZ	D242687.D	08/24/16	11:37	04:41	(unrelated sample)
ZZZZZZ	D242688.D	08/24/16	12:08	05:12	(unrelated sample)
ZZZZZZ	D242690.D	08/24/16	13:09	06:13	(unrelated sample)
ZZZZZZ	D242693.D	08/24/16	14:41	07:45	(unrelated sample)
ZZZZZZ	D242694.D	08/24/16	15:11	08:15	(unrelated sample)
ZZZZZZ	D242695.D	08/24/16	15:41	08:45	(unrelated sample)
ZZZZZZ	D242696.D	08/24/16	16:26	09:30	(unrelated sample)
ZZZZZZ	D242697.D	08/24/16	16:57	10:01	(unrelated sample)
ZZZZZZ	D242698.D	08/24/16	17:27	10:31	(unrelated sample)
ZZZZZZ	D242699.D	08/24/16	17:58	11:02	(unrelated sample)
JC25831-5	D242700.D	08/24/16	18:28	11:32	SB-5-S

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9865-BFB2 **Injection Date:** 08/25/16
Lab File ID: D242712.D **Injection Time:** 06:36
Instrument ID: GCMSD

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15806	15.9		Pass
75	30.0 - 60.0% of mass 95	44466	44.8		Pass
95	Base peak, 100% relative abundance	99168	100.0		Pass
96	5.0 - 9.0% of mass 95	7098	7.16		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	90381	91.1		Pass
175	5.0 - 9.0% of mass 174	6812	6.87	(7.54) [a]	Pass
176	95.0 - 101.0% of mass 174	88045	88.8	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5916	5.97	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9865-CC9850	D242713.D	08/25/16	07:19	00:43	Continuing cal 20
ZZZZZZ	D242715A.D	08/25/16	08:23	01:47	(unrelated sample)
VD9865-MB2	D242715.D	08/25/16	08:23	01:47	Method Blank
VD9865-BS2	D242716.D	08/25/16	08:53	02:17	Blank Spike
JC26086-11	D242718.D	08/25/16	09:54	03:18	(used for QC only; not part of job JC25831)
JC26348-1A	D242719.D	08/25/16	10:29	03:53	(used for QC only; not part of job JC25831)
JC26348-1AMS	D242720.D	08/25/16	10:59	04:23	Matrix Spike
JC26348-1AMSD	D242721.D	08/25/16	11:30	04:54	Matrix Spike Duplicate
ZZZZZZ	D242723.D	08/25/16	12:31	05:55	(unrelated sample)
ZZZZZZ	D242724.D	08/25/16	13:01	06:25	(unrelated sample)
ZZZZZZ	D242725.D	08/25/16	13:32	06:56	(unrelated sample)
ZZZZZZ	D242726.D	08/25/16	14:02	07:26	(unrelated sample)
ZZZZZZ	D242727.D	08/25/16	14:33	07:57	(unrelated sample)
ZZZZZZ	D242728.D	08/25/16	15:04	08:28	(unrelated sample)
VD9866-MB	D242729.D	08/25/16	15:45	09:09	Method Blank
VD9866-BS	D242730.D	08/25/16	16:15	09:39	Blank Spike
ZZZZZZ	D242731.D	08/25/16	17:04	10:28	(unrelated sample)
ZZZZZZ	D242733.D	08/25/16	18:05	11:29	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10206-BFB
Lab File ID: E234316.D
Instrument ID: GCMSE
Injection Date: 04/11/16
Injection Time: 20:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8171	18.1		Pass
75	30.0 - 60.0% of mass 95	21194	46.9		Pass
95	Base peak, 100% relative abundance	45186	100.0		Pass
96	5.0 - 9.0% of mass 95	3045	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	41941	92.8		Pass
175	5.0 - 9.0% of mass 174	3226	7.14	(7.69) [a]	Pass
176	95.0 - 101.0% of mass 174	41088	90.9	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	2750	6.09	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10206-IC10206	E234317.D	04/11/16	21:30	00:35	Initial cal 0.2
VE10206-IC10206	E234318.D	04/11/16	22:05	01:10	Initial cal 0.5
VE10206-IC10206	E234319.D	04/11/16	22:39	01:44	Initial cal 1
VE10206-IC10206	E234320.D	04/11/16	23:13	02:18	Initial cal 2
VE10206-IC10206	E234321.D	04/11/16	23:48	02:53	Initial cal 4
VE10206-IC10206	E234322.D	04/12/16	00:22	03:27	Initial cal 8
VE10206-IC10206	E234323.D	04/12/16	00:57	04:02	Initial cal 20
VE10206-ICC10206	E234324.D	04/12/16	01:31	04:36	Initial cal 50
VE10206-IC10206	E234325.D	04/12/16	02:05	05:10	Initial cal 100
VE10206-IC10206	E234326.D	04/12/16	02:40	05:45	Initial cal 200

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10206-BFB2
Lab File ID: E234331.D
Instrument ID: GCMSE
Injection Date: 04/12/16
Injection Time: 08:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7980	17.8		Pass
75	30.0 - 60.0% of mass 95	20882	46.5		Pass
95	Base peak, 100% relative abundance	44882	100.0		Pass
96	5.0 - 9.0% of mass 95	2884	6.43		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	43069	96.0		Pass
175	5.0 - 9.0% of mass 174	3341	7.44	(7.76) [a]	Pass
176	95.0 - 101.0% of mass 174	41770	93.1	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	2658	5.92	(6.36) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10206-ICV10206	E234332.D	04/12/16	08:59	00:35	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10309-BFB
Lab File ID: E237742.D
Instrument ID: GCMSE
Injection Date: 08/25/16
Injection Time: 06:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12056	20.7		Pass
75	30.0 - 60.0% of mass 95	30253	52.0		Pass
95	Base peak, 100% relative abundance	58202	100.0		Pass
96	5.0 - 9.0% of mass 95	3982	6.84		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	53282	91.5		Pass
175	5.0 - 9.0% of mass 174	4334	7.45	(8.13) [a]	Pass
176	95.0 - 101.0% of mass 174	52482	90.2	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3527	6.06	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10309-CC10206	E237743.D	08/25/16	07:15	00:39	Continuing cal 20
VE10309-MB1	E237745.D	08/25/16	08:24	01:48	Method Blank
ZZZZZZ	E237745B.D	08/25/16	08:24	01:48	(unrelated sample)
VE10309-BS	E237746.D	08/25/16	08:59	02:23	Blank Spike
ZZZZZZ	E237748.D	08/25/16	10:07	03:31	(unrelated sample)
ZZZZZZ	E237750.D	08/25/16	11:15	04:39	(unrelated sample)
JC25831-10	E237751.D	08/25/16	11:49	05:13	SB-9-S
JC25831-10	E237752.D	08/25/16	12:24	05:48	SB-9-S
JC25831-10MS	E237753.D	08/25/16	12:58	06:22	Matrix Spike
JC25831-10MSD	E237754.D	08/25/16	13:32	06:56	Matrix Spike Duplicate
ZZZZZZ	E237757.D	08/25/16	15:16	08:40	(unrelated sample)
ZZZZZZ	E237760.D	08/25/16	17:27	10:51	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7097-BFB
Lab File ID: X165539.D
Instrument ID: GCMSX
Injection Date: 08/06/16
Injection Time: 15:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10528	17.9		Pass
75	30.0 - 60.0% of mass 95	26570	45.1		Pass
95	Base peak, 100% relative abundance	58880	100.0		Pass
96	5.0 - 9.0% of mass 95	3792	6.44		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	58714	99.7		Pass
175	5.0 - 9.0% of mass 174	4640	7.88	(7.90) [a]	Pass
176	95.0 - 101.0% of mass 174	57389	97.5	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4017	6.82	(7.00) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7097-IC7097	X165540.D	08/06/16	16:14	00:40	Initial cal 0.2
VX7097-IC7097	X165541.D	08/06/16	16:44	01:10	Initial cal 0.5
VX7097-IC7097	X165542.D	08/06/16	17:15	01:41	Initial cal 1
VX7097-IC7097	X165543.D	08/06/16	17:45	02:11	Initial cal 2
VX7097-IC7097	X165544.D	08/06/16	18:15	02:41	Initial cal 4
VX7097-IC7097	X165545.D	08/06/16	18:45	03:11	Initial cal 8
VX7097-IC7097	X165546.D	08/06/16	19:15	03:41	Initial cal 20
VX7097-ICC7097	X165547.D	08/06/16	19:46	04:12	Initial cal 50
VX7097-IC7097	X165548.D	08/06/16	20:16	04:42	Initial cal 100
VX7097-IC7097	X165549.D	08/06/16	20:46	05:12	Initial cal 200
VX7097-ICV7097	X165552.D	08/06/16	22:15	06:41	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7110-BFB
Lab File ID: X165987.D
Instrument ID: GCMSX
Injection Date: 08/24/16
Injection Time: 09:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10802	17.6		Pass
75	30.0 - 60.0% of mass 95	27005	44.1		Pass
95	Base peak, 100% relative abundance	61269	100.0		Pass
96	5.0 - 9.0% of mass 95	4246	6.93		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	60528	98.8		Pass
175	5.0 - 9.0% of mass 174	4991	8.15	(8.25) [a]	Pass
176	95.0 - 101.0% of mass 174	59456	97.0	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3901	6.37	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7110-CC7097	X165988.D	08/24/16	10:07	00:31	Continuing cal 20
VX7110-MB	X165990.D	08/24/16	11:10	01:34	Method Blank
VX7110-BS	X165991.D	08/24/16	11:41	02:05	Blank Spike
JC25831-1	X165993.D	08/24/16	12:40	03:04	SB-1-S
JC25831-2	X165994.D	08/24/16	13:11	03:35	SB-2-S
JC25831-3	X165995.D	08/24/16	13:41	04:05	SB-3-S
JC25831-4	X165996.D	08/24/16	14:11	04:35	SB-4-S
JC25831-6	X165997.D	08/24/16	14:41	05:05	SB-6-S
JC25831-2MS	X165998.D	08/24/16	15:11	05:35	Matrix Spike
JC25831-3DUP	X166000.D	08/24/16	16:11	06:35	Duplicate
ZZZZZZ	X166001.D	08/24/16	16:42	07:06	(unrelated sample)
ZZZZZZ	X166002.D	08/24/16	17:12	07:36	(unrelated sample)
ZZZZZZ	X166003.D	08/24/16	17:42	08:06	(unrelated sample)
ZZZZZZ	X166004.D	08/24/16	18:12	08:36	(unrelated sample)
ZZZZZZ	X166005.D	08/24/16	18:42	09:06	(unrelated sample)
ZZZZZZ	X166006.D	08/24/16	19:13	09:37	(unrelated sample)
JC25831-7	X166007.D	08/24/16	19:42	10:06	SB-7-S
ZZZZZZ	X166009.D	08/24/16	20:43	11:07	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7111-BFB
Lab File ID: X166019.D
Instrument ID: GCMSX
Injection Date: 08/25/16
Injection Time: 08:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9586	17.5		Pass
75	30.0 - 60.0% of mass 95	24384	44.6		Pass
95	Base peak, 100% relative abundance	54643	100.0		Pass
96	5.0 - 9.0% of mass 95	3641	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	57656	105.5		Pass
175	5.0 - 9.0% of mass 174	4735	8.67	(8.21) [a]	Pass
176	95.0 - 101.0% of mass 174	56133	102.7	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	3755	6.87	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7111-CC7097	X166021.D	08/25/16	09:39	01:20	Continuing cal 20
VX7111-MB	X166023.D	08/25/16	10:39	02:20	Method Blank
VX7111-BS	X166024.D	08/25/16	11:10	02:51	Blank Spike
ZZZZZZ	X166026.D	08/25/16	12:10	03:51	(unrelated sample)
JC25831-8	X166027.D	08/25/16	12:40	04:21	SB-8-S-1
JC25831-11	X166028.D	08/25/16	13:10	04:51	SB-10-S
JC25831-9	X166029.D	08/25/16	13:40	05:21	SB-8-S-2
ZZZZZZ	X166030.D	08/25/16	14:10	05:51	(unrelated sample)
ZZZZZZ	X166031.D	08/25/16	14:40	06:21	(unrelated sample)
JC25831-9MS	X166032.D	08/25/16	15:10	06:51	Matrix Spike
JC25831-11DUP	X166034.D	08/25/16	16:10	07:51	Duplicate
ZZZZZZ	X166035.D	08/25/16	16:40	08:21	(unrelated sample)
ZZZZZZ	X166037.D	08/25/16	17:41	09:22	(unrelated sample)
ZZZZZZ	X166038.D	08/25/16	18:11	09:52	(unrelated sample)
ZZZZZZ	X166039.D	08/25/16	18:41	10:22	(unrelated sample)
ZZZZZZ	X166040.D	08/25/16	19:12	10:53	(unrelated sample)
ZZZZZZ	X166041.D	08/25/16	19:42	11:23	(unrelated sample)
ZZZZZZ	X166042.D	08/25/16	20:12	11:53	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC25831-1	X165993.D	105	105	98	98
JC25831-2	X165994.D	100	100	99	97
JC25831-3	X165995.D	103	102	99	96
JC25831-4	X165996.D	103	103	98	97
JC25831-5	D242700.D	98	100	102	102
JC25831-5	D242685.D	98	102	101	99
JC25831-6	X165997.D	103	101	98	97
JC25831-7	X166007.D	104	102	99	97
JC25831-8	X166027.D	107	106	98	95
JC25831-9	X166029.D	104	107	104	88
JC25831-10	E237751.D	112	119	97	93
JC25831-10	E237752.D	110	115	113	99
JC25831-11	X166028.D	105	102	99	96
JC25831-10MS	E237753.D	111	119	113	101
JC25831-10MSD	E237754.D	111	115	113	104
JC25831-11DUP	X166034.D	100	98	98	98
JC25831-2MS	X165998.D	97	85	100	101
JC25831-3DUP	X166000.D	103	103	99	97
JC25831-9MS	X166032.D	99	87	100	101
JC26348-1AMS	D242720.D	98	102	101	101
JC26348-1AMSD	D242721.D	99	103	100	103
VD9865-BS	D242682.D	99	101	101	101
VD9865-MB	D242681.D	97	99	100	100
VE10309-BS	E237746.D	107	122	100	101
VE10309-MB1	E237745.D	110	117	99	101
VX7110-BS	X165991.D	101	97	101	103
VX7110-MB	X165990.D	97	96	97	98
VX7111-BS	X166024.D	103	99	101	102
VX7111-MB	X166023.D	101	95	98	96
VD9865-MB2	D242715.D	98	100	100	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%
S4 = 4-Bromofluorobenzene	72-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-MB1	P106756.D	1	08/18/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	96%	26-122%
321-60-8	2-Fluorobiphenyl	100%	36-112%
1718-51-0	Terphenyl-d14	87%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.32	430	ug/kg	J
	system artifact	3.25	590	ug/kg	J
	system artifact	3.46	160	ug/kg	J
	system artifact	3.57	420	ug/kg	J
	system artifact/aldol-condensation	3.61	630	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	5P30732.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	81%	30-106%
4165-62-2	Phenol-d5	83%	30-106%
118-79-6	2,4,6-Tribromophenol	104%	24-140%
4165-60-0	Nitrobenzene-d5	89%	26-122%
321-60-8	2-Fluorobiphenyl	94%	36-112%
1718-51-0	Terphenyl-d14	99%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.82	450	ug/kg	J
	system artifact	1.90	340	ug/kg	J
	system artifact	2.66	360	ug/kg	J
	system artifact	2.98	250	ug/kg	J
	system artifact/aldol-condensation	3.05	250	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	3E86014.D	1	08/19/16	AN	08/17/16	OP96369	E3E3782

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	99%	30-106%
4165-62-2	Phenol-d5	96%	30-106%
118-79-6	2,4,6-Tribromophenol	121%	24-140%
4165-60-0	Nitrobenzene-d5	104%	26-122%
321-60-8	2-Fluorobiphenyl	92%	36-112%
1718-51-0	Terphenyl-d14	93%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.84	690	ug/kg	J
	system artifact	1.89	300	ug/kg	J
	system artifact	2.83	610	ug/kg	J
	system artifact	3.05	170	ug/kg	J
	system artifact	3.17	470	ug/kg	J
	system artifact/aldol-condensation	3.21	400	ug/kg	J

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	3E86014.D	1	08/19/16	AN	08/17/16	OP96369	E3E3782

The QC reported here applies to the following samples: **Method:**

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-BS1	P106757.D	1	08/18/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1510	91	60-108
208-96-8	Acenaphthylene	1670	1430	86	54-94
120-12-7	Anthracene	1670	1510	91	59-109
56-55-3	Benzo(a)anthracene	1670	1460	88	52-113
50-32-8	Benzo(a)pyrene	1670	1460	88	56-122
205-99-2	Benzo(b)fluoranthene	1670	1400	84	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1470	88	48-117
207-08-9	Benzo(k)fluoranthene	1670	1430	86	52-115
218-01-9	Chrysene	1670	1420	85	51-119
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	49-118
206-44-0	Fluoranthene	1670	1520	91	58-110
86-73-7	Fluorene	1670	1430	86	59-108
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	48-120
91-20-3	Naphthalene	1670	1250	75	49-100
85-01-8	Phenanthrene	1670	1550	93	57-105
129-00-0	Pyrene	1670	1510	91	50-117

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	87%	26-122%
321-60-8	2-Fluorobiphenyl	94%	36-112%
1718-51-0	Terphenyl-d14	97%	36-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-BS1	5P30731.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1310	79	60-108
208-96-8	Acenaphthylene	1670	1250	75	54-94
120-12-7	Anthracene	1670	1310	79	59-109
56-55-3	Benzo(a)anthracene	1670	1310	79	52-113
50-32-8	Benzo(a)pyrene	1670	1410	85	56-122
205-99-2	Benzo(b)fluoranthene	1670	1460	88	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1360	82	48-117
207-08-9	Benzo(k)fluoranthene	1670	1350	81	52-115
218-01-9	Chrysene	1670	1320	79	51-119
53-70-3	Dibenzo(a,h)anthracene	1670	1480	89	49-118
206-44-0	Fluoranthene	1670	1290	77	58-110
86-73-7	Fluorene	1670	1320	79	59-108
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	48-120
91-20-3	Naphthalene	1670	1310	79	49-100
85-01-8	Phenanthrene	1670	1330	80	57-105
129-00-0	Pyrene	1670	1440	86	50-117

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	30-106%
4165-62-2	Phenol-d5	80%	30-106%
118-79-6	2,4,6-Tribromophenol	95%	24-140%
4165-60-0	Nitrobenzene-d5	81%	26-122%
321-60-8	2-Fluorobiphenyl	90%	36-112%
1718-51-0	Terphenyl-d14	96%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-MS	P106773.D	1	08/19/16	AD	08/17/16	OP96370	EP4726
OP96370-MSD	P106774.D	1	08/19/16	AD	08/17/16	OP96370	EP4726
JC25808-1	P106772.D	1	08/19/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	JC25808-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	16.6	J	1860	1500	80	1910	1570	81	5	34-125/36
208-96-8	Acenaphthylene	44.2		1860	1430	75	1910	1460	74	2	28-113/34
120-12-7	Anthracene	75.7		1860	1460	74	1910	1540	77	5	31-131/41
56-55-3	Benzo(a)anthracene	217		1860	1510	70	1910	1580	71	5	23-136/43
50-32-8	Benzo(a)pyrene	258		1860	1480	66	1910	1570	69	6	22-144/42
205-99-2	Benzo(b)fluoranthene	328		1860	1480	62	1910	1510	62	2	18-145/43
191-24-2	Benzo(g,h,i)perylene	193		1860	1460	68	1910	1560	71	7	20-138/43
207-08-9	Benzo(k)fluoranthene	129		1860	1380	67	1910	1480	71	7	27-129/43
218-01-9	Chrysene	259		1860	1520	68	1910	1600	70	5	21-142/43
53-70-3	Dibenzo(a,h)anthracene	45.2		1860	1320	69	1910	1400	71	6	25-135/41
206-44-0	Fluoranthene	550		1860	1720	63	1910	1890	70	9	15-143/46
86-73-7	Fluorene	32.8	J	1860	1430	75	1910	1480	76	3	30-129/37
193-39-5	Indeno(1,2,3-cd)pyrene	203		1860	1410	65	1910	1480	67	5	23-141/44
91-20-3	Naphthalene	ND		1860	1280	69	1910	1330	70	4	24-118/35
85-01-8	Phenanthrene	309		1860	1660	73	1910	1760	76	6	14-144/44
129-00-0	Pyrene	414		1860	1710	70	1910	1840	75	7	16-147/46

CAS No.	Surrogate Recoveries	MS	MSD	JC25808-1	Limits
367-12-4	2-Fluorophenol	89%	90%		30-106%
4165-62-2	Phenol-d5	84%	84%		30-106%
118-79-6	2,4,6-Tribromophenol	95%	93%		24-140%
4165-60-0	Nitrobenzene-d5	80%	79%	84%	26-122%
321-60-8	2-Fluorobiphenyl	86%	84%	92%	36-112%
1718-51-0	Terphenyl-d14	83%	82%	79%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MS [a]	5P30741.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563
OP96369-MSD [a]	5P30742.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563
JC25801-1 [a]	5P30740.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	JC25801-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		1730	651	38	1730	553	32* [b]	16	34-125/36
208-96-8	Acenaphthylene	ND		1730	605	35	1730	473	27* [b]	24	28-113/34
120-12-7	Anthracene	341	J	1730	743	23* [b]	1730	584	14* [b]	24	31-131/41
56-55-3	Benzo(a)anthracene	715		1730	936	13* [b]	1730	785	4* [b]	18	23-136/43
50-32-8	Benzo(a)pyrene	647		1730	892	14* [b]	1730	774	7* [b]	14	22-144/42
205-99-2	Benzo(b)fluoranthene	758		1730	856	6* [b]	1730	651	-6* [b]	27	18-145/43
191-24-2	Benzo(g,h,i)perylene	475		1730	771	17* [b]	1730	588	7* [b]	27	20-138/43
207-08-9	Benzo(k)fluoranthene	246	J	1730	624	22* [b]	1730	569	19* [b]	9	27-129/43
218-01-9	Chrysene	656		1730	821	10* [b]	1730	747	5* [b]	9	21-142/43
53-70-3	Dibenzo(a,h)anthracene	ND		1730	627	36	1730	525	30	18	25-135/41
206-44-0	Fluoranthene	2030		1730	1690	-20* [b]	1730	1630	-23* [b]	4	15-143/46
86-73-7	Fluorene	186	J	1730	629	26* [b]	1730	497	18* [b]	23	30-129/37
193-39-5	Indeno(1,2,3-cd)pyrene	364		1730	697	19* [b]	1730	549	11* [b]	24	23-141/44
91-20-3	Naphthalene	ND		1730	600	35	1730	484	28	21	24-118/35
85-01-8	Phenanthrene	1440		1730	1160	-16* [b]	1730	1110	-19* [b]	4	14-144/44
129-00-0	Pyrene	1220		1730	1030	-11* [b]	1730	938	-16* [b]	9	16-147/46

CAS No.	Surrogate Recoveries	MS	MSD	JC25801-1	Limits
367-12-4	2-Fluorophenol	27%* [b]	19%* [b]	28%* [c]	30-106%
4165-62-2	Phenol-d5	26%* [b]	26%* [b]	31%	30-106%
118-79-6	2,4,6-Tribromophenol	53%	38%	53%	24-140%
4165-60-0	Nitrobenzene-d5	35%	25%* [b]	35%	26-122%
321-60-8	2-Fluorobiphenyl	39%	31%* [b]	44%	36-112%
1718-51-0	Terphenyl-d14	37%	29%* [b]	41%	36-132%

(a) Elevated detection limit due to high final volume of viscous extract. Dilution required due to matrix viscosity.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to matrix interference, confirmed by MS/MSD.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3778-DFTPP
Lab File ID: 3E85942.D
Instrument ID: GCMS3E
Injection Date: 08/17/16
Injection Time: 15:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	150102	39.1		Pass
68	Less than 2.0% of mass 69	647	0.17	(0.44) [a]	Pass
69	Mass 69 relative abundance	147661	38.5		Pass
70	Less than 2.0% of mass 69	597	0.16	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	222129	57.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	383488	100.0		Pass
199	5.0 - 9.0% of mass 198	25209	6.57		Pass
275	10.0 - 30.0% of mass 198	77381	20.2		Pass
365	1.0 - 100.0% of mass 198	9645	2.52		Pass
441	Present, but less than mass 443	40448	10.5	(81.3) [b]	Pass
442	40.0 - 100.0% of mass 198	257053	67.0		Pass
443	17.0 - 23.0% of mass 442	49734	13.0	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3778-IC3778	3E85943.D	08/17/16	15:36	00:19	Initial cal 2
E3E3778-IC3778	3E85944.D	08/17/16	16:07	00:50	Initial cal 1
E3E3778-IC3778	3E85945.D	08/17/16	16:34	01:17	Initial cal 100
E3E3778-IC3778	3E85946.D	08/17/16	17:01	01:44	Initial cal 80
E3E3778-IC3778	3E85947.D	08/17/16	17:28	02:11	Initial cal 25
E3E3778-IC3778	3E85948.D	08/17/16	17:55	02:38	Initial cal 10
E3E3778-IC3778	3E85949.D	08/17/16	18:22	03:05	Initial cal 5
E3E3778-ICC3778	3E85950.D	08/17/16	18:49	03:32	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3779-DFTPP
Lab File ID: 3E85951.D
Instrument ID: GCMS3E
Injection Date: 08/17/16
Injection Time: 19:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	135192	41.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	127053	39.4		Pass
70	Less than 2.0% of mass 69	676	0.21	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	186336	57.8		Pass
197	Less than 1.0% of mass 198	1114	0.35		Pass
198	Base peak, 100% relative abundance	322624	100.0		Pass
199	5.0 - 9.0% of mass 198	20525	6.36		Pass
275	10.0 - 30.0% of mass 198	64245	19.9		Pass
365	1.0 - 100.0% of mass 198	7834	2.43		Pass
441	Present, but less than mass 443	37992	11.8	(83.8) [b]	Pass
442	40.0 - 100.0% of mass 198	249189	77.2		Pass
443	17.0 - 23.0% of mass 442	45357	14.1	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3779-ICV3778	3E85960.D	08/17/16	23:12	03:51	Initial cal verification 50
E3E3779-ICV3778	3E85961.D	08/17/16	23:39	04:18	Initial cal verification 50
E3E3779-ICV3778	3E85962.D	08/18/16	00:05	04:44	Initial cal verification 50
E3E3779-ICV3778	3E85963.D	08/18/16	00:32	05:11	Initial cal verification 50
E3E3779-ICV3778	3E85964.D	08/18/16	00:59	05:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3780-DFTPP
Lab File ID: 3E85967.D
Instrument ID: GCMS3E
Injection Date: 08/18/16
Injection Time: 10:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	113242	38.7		Pass
68	Less than 2.0% of mass 69	196	0.07	(0.18) [a]	Pass
69	Mass 69 relative abundance	111168	38.0		Pass
70	Less than 2.0% of mass 69	611	0.21	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	167120	57.2		Pass
197	Less than 1.0% of mass 198	762	0.26		Pass
198	Base peak, 100% relative abundance	292352	100.0		Pass
199	5.0 - 9.0% of mass 198	19367	6.62		Pass
275	10.0 - 30.0% of mass 198	61290	21.0		Pass
365	1.0 - 100.0% of mass 198	7309	2.50		Pass
441	Present, but less than mass 443	31377	10.7	(80.4) [b]	Pass
442	40.0 - 100.0% of mass 198	213245	72.9		Pass
443	17.0 - 23.0% of mass 442	39008	13.3	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3780-IC3780	3E85968.D	08/18/16	10:52	00:26	Initial cal 100
E3E3780-IC3780	3E85969.D	08/18/16	11:18	00:52	Initial cal 80
E3E3780-ICC3780	3E85970.D	08/18/16	11:45	01:19	Initial cal 50
E3E3780-IC3780	3E85971.D	08/18/16	12:12	01:46	Initial cal 25
E3E3780-IC3780	3E85972.D	08/18/16	12:39	02:13	Initial cal 10
E3E3780-IC3780	3E85973.D	08/18/16	13:06	02:40	Initial cal 5
E3E3780-IC3780	3E85974.D	08/18/16	13:33	03:07	Initial cal 2
E3E3780-IC3780	3E85975.D	08/18/16	14:00	03:34	Initial cal 1
E3E3780-ICV3780	3E85976.D	08/18/16	14:27	04:01	Initial cal verification 50
E3E3780-ICV3780	3E85977.D	08/18/16	14:54	04:28	Initial cal verification 50
E3E3780-ICV3780	3E85978.D	08/18/16	15:21	04:55	Initial cal verification 50
E3E3780-ICV3780	3E85979.D	08/18/16	15:48	05:22	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3782-DFTPP
Lab File ID: 3E86011.D
Instrument ID: GCMS3E
Injection Date: 08/19/16
Injection Time: 10:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	165258	39.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	165959	39.8		Pass
70	Less than 2.0% of mass 69	828	0.20	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	249088	59.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	416938	100.0		Pass
199	5.0 - 9.0% of mass 198	29386	7.05		Pass
275	10.0 - 30.0% of mass 198	96984	23.3		Pass
365	1.0 - 100.0% of mass 198	13707	3.29		Pass
441	Present, but less than mass 443	61261	14.7	(82.2) [b]	Pass
442	40.0 - 100.0% of mass 198	396330	95.1		Pass
443	17.0 - 23.0% of mass 442	74570	17.9	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3782-CC3778	3E86012.D	08/19/16	10:48	00:12	Continuing cal 25
E3E3782-CC3780	3E86013.D	08/19/16	11:18	00:42	Continuing cal 25
OP96369-MB1	3E86014.D	08/19/16	11:49	01:13	Method Blank
OP96402-BS1	3E86015.D	08/19/16	12:14	01:38	Blank Spike
OP96402-MB1	3E86016.D	08/19/16	12:39	02:03	Method Blank
ZZZZZZ	3E86023.D	08/19/16	13:05	02:29	(unrelated sample)
C46858-1	3E86017.D	08/19/16	13:55	03:19	(used for QC only; not part of job JC25831)
OP96402-MS	3E86018.D	08/19/16	14:21	03:45	Matrix Spike
OP96402-MSD	3E86019.D	08/19/16	14:46	04:10	Matrix Spike Duplicate
ZZZZZZ	3E86020.D	08/19/16	15:11	04:35	(unrelated sample)
ZZZZZZ	3E86025.D	08/19/16	15:37	05:01	(unrelated sample)
ZZZZZZ	3E86026.D	08/19/16	16:02	05:26	(unrelated sample)
ZZZZZZ	3E86027.D	08/19/16	16:27	05:51	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1542-DFTPP
Lab File ID: 5P30299.D
Instrument ID: GCMS5P
Injection Date: 08/04/16
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34420	41.9		Pass
68	Less than 2.0% of mass 69	88	0.11	(0.22) [a]	Pass
69	Mass 69 relative abundance	39630	48.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	45640	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	82218	100.0		Pass
199	5.0 - 9.0% of mass 198	5051	6.14		Pass
275	10.0 - 30.0% of mass 198	18355	22.3		Pass
365	1.0 - 100.0% of mass 198	2548	3.10		Pass
441	Present, but less than mass 443	4847	5.90	(39.8) [b]	Pass
442	40.0 - 100.0% of mass 198	69594	84.6		Pass
443	17.0 - 23.0% of mass 442	12189	14.8	(17.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1542-IC1542	5P30302.D	08/04/16	11:13	01:28	Initial cal 2
E5P1542-IC1542	5P30304.D	08/04/16	12:06	02:21	Initial cal 100
E5P1542-IC1542	5P30305.D	08/04/16	12:31	02:46	Initial cal 80
E5P1542-IC1542	5P30306.D	08/04/16	12:55	03:10	Initial cal 25
E5P1542-IC1542	5P30307.D	08/04/16	13:19	03:34	Initial cal 10
E5P1542-IC1542	5P30308.D	08/04/16	13:43	03:58	Initial cal 5
E5P1542-ICC1542	5P30309.D	08/04/16	14:07	04:22	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1543-DFTPP
Lab File ID: 5P30310.D
Instrument ID: GCMS5P
Injection Date: 08/04/16
Injection Time: 14:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	25237	38.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	28381	43.8		Pass
70	Less than 2.0% of mass 69	88	0.14	(0.31) [a]	Pass
127	40.0 - 60.0% of mass 198	34562	53.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	64824	100.0		Pass
199	5.0 - 9.0% of mass 198	4841	7.47		Pass
275	10.0 - 30.0% of mass 198	16060	24.8		Pass
365	1.0 - 100.0% of mass 198	2524	3.89		Pass
441	Present, but less than mass 443	6537	10.1	(57.9) [b]	Pass
442	40.0 - 100.0% of mass 198	61848	95.4		Pass
443	17.0 - 23.0% of mass 442	11288	17.4	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1543-IC1543	5P30311.D	08/04/16	14:50	00:15	Initial cal 100
E5P1543-IC1543	5P30312.D	08/04/16	15:14	00:39	Initial cal 80
E5P1543-ICC1543	5P30313.D	08/04/16	15:38	01:03	Initial cal 50
E5P1543-IC1543	5P30314.D	08/04/16	16:02	01:27	Initial cal 25
E5P1543-IC1543	5P30315.D	08/04/16	16:26	01:51	Initial cal 10
E5P1543-IC1543	5P30316.D	08/04/16	16:50	02:15	Initial cal 5
E5P1543-IC1543	5P30317.D	08/04/16	17:14	02:39	Initial cal 2
E5P1543-IC1543	5P30318.D	08/04/16	17:38	03:03	Initial cal 1
E5P1543-ICV1542	5P30319.D	08/04/16	18:02	03:27	Initial cal verification 50
E5P1543-ICV1542	5P30320.D	08/04/16	18:26	03:51	Initial cal verification 50
E5P1543-ICV1542	5P30321.D	08/04/16	18:50	04:15	Initial cal verification 50
E5P1543-ICV1543	5P30322A.D	08/04/16	19:14	04:39	Initial cal verification 50
E5P1543-ICV1542	5P30322.D	08/04/16	19:14	04:39	Initial cal verification 50
E5P1543-ICV1542	5P30323.D	08/04/16	19:38	05:03	Initial cal verification 50
E5P1543-ICV1543	5P30323A.D	08/04/16	19:38	05:03	Initial cal verification 50
E5P1543-ICV1542	5P30324.D	08/04/16	20:02	05:27	Initial cal verification 50
E5P1543-ICV1543	5P30325.D	08/04/16	20:26	05:51	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1563-DFTPP
Lab File ID: 5P30726.D
Instrument ID: GCMS5P
Injection Date: 08/19/16
Injection Time: 08:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50825	36.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	59998	43.5		Pass
70	Less than 2.0% of mass 69	21	0.02	(0.04) [a]	Pass
127	40.0 - 60.0% of mass 198	72813	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	137821	100.0		Pass
199	5.0 - 9.0% of mass 198	8317	6.03		Pass
275	10.0 - 30.0% of mass 198	31686	23.0		Pass
365	1.0 - 100.0% of mass 198	2956	2.14		Pass
441	Present, but less than mass 443	8925	6.48	(43.5) [b]	Pass
442	40.0 - 100.0% of mass 198	108410	78.7		Pass
443	17.0 - 23.0% of mass 442	20508	14.9	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1563-CC1542	5P30727.D	08/19/16	08:32	00:15	Continuing cal 50
E5P1563-CC1543	5P30728.D	08/19/16	08:56	00:39	Continuing cal 50
OP96369-BS1	5P30731.D	08/19/16	10:08	01:51	Blank Spike
OP96369-MB1	5P30732.D	08/19/16	10:32	02:15	Method Blank
ZZZZZZ	5P30733.D	08/19/16	10:57	02:40	(unrelated sample)
ZZZZZZ	5P30734.D	08/19/16	11:21	03:04	(unrelated sample)
ZZZZZZ	5P30735.D	08/19/16	11:45	03:28	(unrelated sample)
ZZZZZZ	5P30736.D	08/19/16	12:10	03:53	(unrelated sample)
ZZZZZZ	5P30737.D	08/19/16	12:34	04:17	(unrelated sample)
ZZZZZZ	5P30738.D	08/19/16	12:58	04:41	(unrelated sample)
JC25801-1	5P30740.D	08/19/16	13:47	05:30	(used for QC only; not part of job JC25831)
OP96369-MS	5P30741.D	08/19/16	14:12	05:55	Matrix Spike
OP96369-MSD	5P30742.D	08/19/16	14:36	06:19	Matrix Spike Duplicate
JC25831-1	5P30746A.D	08/19/16	16:38	08:21	SB-1-S
JC25831-4	5P30748.D	08/19/16	18:02	09:45	SB-4-S
JC25831-5	5P30749.D	08/19/16	18:26	10:09	SB-5-S
JC25831-6	5P30750.D	08/19/16	18:50	10:33	SB-6-S
JC25831-7	5P30751.D	08/19/16	19:15	10:58	SB-7-S
JC25831-3	5P30752.D	08/19/16	19:39	11:22	SB-3-S

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	E5P1563-DFTPP	**Injection Date:**	08/19/16
Lab File ID:	5P30726.D	**Injection Time:**	08:17
Instrument ID:	GCMS5P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5P30753.D	08/19/16	20:04	11:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1565-DFTPP
Lab File ID: 5P30781.D
Instrument ID: GCMS5P
Injection Date: 08/22/16
Injection Time: 12:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41633	38.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46749	42.7		Pass
70	Less than 2.0% of mass 69	557	0.51	(1.19) [a]	Pass
127	40.0 - 60.0% of mass 198	56162	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	109578	100.0		Pass
199	5.0 - 9.0% of mass 198	7675	7.00		Pass
275	10.0 - 30.0% of mass 198	25099	22.9		Pass
365	1.0 - 100.0% of mass 198	3631	3.31		Pass
441	Present, but less than mass 443	11365	10.4	(66.3) [b]	Pass
442	40.0 - 100.0% of mass 198	87673	80.0		Pass
443	17.0 - 23.0% of mass 442	17137	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1565-CC1542	5P30782.D	08/22/16	13:04	00:14	Continuing cal 50
E5P1565-CC1543	5P30783.D	08/22/16	13:28	00:38	Continuing cal 50
OP96428-MB1	5P30785.D	08/22/16	14:41	01:51	Method Blank
OP96428-BS1	5P30786.D	08/22/16	15:06	02:16	Blank Spike
OP96428-BS13	5P30787.D	08/22/16	15:30	02:40	Blank Spike
OP96428-MS	5P30788.D	08/22/16	15:54	03:04	Matrix Spike
OP96428-MSD	5P30789.D	08/22/16	16:18	03:28	Matrix Spike Duplicate
JC25908-1B	5P30790.D	08/22/16	16:43	03:53	(used for QC only; not part of job JC25831)
ZZZZZZ	5P30791.D	08/22/16	17:08	04:18	(unrelated sample)
ZZZZZZ	5P30792.D	08/22/16	17:32	04:42	(unrelated sample)
ZZZZZZ	5P30793.D	08/22/16	17:56	05:06	(unrelated sample)
ZZZZZZ	5P30794.D	08/22/16	18:21	05:31	(unrelated sample)
ZZZZZZ	5P30795.D	08/22/16	18:46	05:56	(unrelated sample)
ZZZZZZ	5P30796.D	08/22/16	19:10	06:20	(unrelated sample)
JC25831-2	5P30798.D	08/22/16	19:35	06:45	SB-2-S
JC25831-5	5P30799.D	08/22/16	19:59	07:09	SB-5-S

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4722-DFTPP
Lab File ID: P106722.D
Instrument ID: GCMSP
Injection Date: 08/17/16
Injection Time: 01:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	14558	35.9		Pass
68	Less than 2.0% of mass 69	211	0.52	(1.21) [a]	Pass
69	Mass 69 relative abundance	17382	42.9		Pass
70	Less than 2.0% of mass 69	328	0.81	(1.89) [a]	Pass
127	40.0 - 60.0% of mass 198	19221	47.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	40504	100.0		Pass
199	5.0 - 9.0% of mass 198	2734	6.75		Pass
275	10.0 - 30.0% of mass 198	8790	21.7		Pass
365	1.0 - 100.0% of mass 198	823	2.03		Pass
441	Present, but less than mass 443	3197	7.89	(73.7) [b]	Pass
442	40.0 - 100.0% of mass 198	22247	54.9		Pass
443	17.0 - 23.0% of mass 442	4335	10.7	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4722-ICC4722	P106723.D	08/17/16	01:15	00:14	Initial cal 50
EP4722-IC4722	P106724.D	08/17/16	01:43	00:42	Initial cal 1
EP4722-IC4722	P106725.D	08/17/16	02:11	01:10	Initial cal 2
EP4722-IC4722	P106726.D	08/17/16	02:39	01:38	Initial cal 5
EP4722-IC4722	P106727.D	08/17/16	03:07	02:06	Initial cal 10
EP4722-IC4722	P106728.D	08/17/16	03:36	02:35	Initial cal 25
EP4722-IC4722	P106729.D	08/17/16	04:04	03:03	Initial cal 80
EP4722-IC4722	P106730.D	08/17/16	04:33	03:32	Initial cal 100

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4723-DFTPP
Lab File ID: P106731A.D
Instrument ID: GCMSP
Injection Date: 08/17/16
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17652	38.7		Pass
68	Less than 2.0% of mass 69	175	0.38	(0.83) [a]	Pass
69	Mass 69 relative abundance	21194	46.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	21478	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	45633	100.0		Pass
199	5.0 - 9.0% of mass 198	3102	6.80		Pass
275	10.0 - 30.0% of mass 198	8957	19.6		Pass
365	1.0 - 100.0% of mass 198	678	1.49		Pass
441	Present, but less than mass 443	3009	6.59	(70.3) [b]	Pass
442	40.0 - 100.0% of mass 198	20716	45.4		Pass
443	17.0 - 23.0% of mass 442	4283	9.39	(20.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4723-IC4723	P106732.D	08/17/16	09:20	00:16	Initial cal 100
EP4723-IC4723	P106733.D	08/17/16	09:54	00:50	Initial cal 80
EP4723-ICC4723	P106734.D	08/17/16	10:22	01:18	Initial cal 50
EP4723-IC4723	P106735.D	08/17/16	10:56	01:52	Initial cal 25
EP4723-IC4723	P106736.D	08/17/16	11:31	02:27	Initial cal 10
EP4723-IC4723	P106737.D	08/17/16	12:07	03:03	Initial cal 5
EP4723-IC4723	P106738.D	08/17/16	12:42	03:38	Initial cal 2
EP4723-IC4723	P106739.D	08/17/16	13:19	04:15	Initial cal 1
EP4723-ICV4722	P106740.D	08/17/16	13:54	04:50	Initial cal verification 50
EP4723-ICV4723	P106740A.D	08/17/16	13:54	04:50	Initial cal verification 50
EP4723-ICV4722	P106742.D	08/17/16	15:01	05:57	Initial cal verification 50
EP4723-ICV4722	P106743.D	08/17/16	15:36	06:32	Initial cal verification 50
EP4723-ICV4722	P106744.D	08/17/16	16:10	07:06	Initial cal verification 50
EP4723-ICV4723	P106745.D	08/17/16	16:45	07:41	Initial cal verification 50
EP4723-ICV4723	P106746.D	08/17/16	17:13	08:09	Initial cal verification 50
EP4723-ICV4722	P106746A.D	08/17/16	17:13	08:09	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4725-DFTPP
Lab File ID: P106749.D
Instrument ID: GCMSP
Injection Date: 08/18/16
Injection Time: 11:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15888	38.0		Pass
68	Less than 2.0% of mass 69	170	0.41	(0.88) [a]	Pass
69	Mass 69 relative abundance	19241	46.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	19675	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	41782	100.0		Pass
199	5.0 - 9.0% of mass 198	2830	6.77		Pass
275	10.0 - 30.0% of mass 198	8698	20.8		Pass
365	1.0 - 100.0% of mass 198	731	1.75		Pass
441	Present, but less than mass 443	2984	7.14	(81.5) [b]	Pass
442	40.0 - 100.0% of mass 198	19124	45.8		Pass
443	17.0 - 23.0% of mass 442	3660	8.76	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4725-ICV4722	P106751.D	08/18/16	12:15	00:50	Initial cal verification 50
EP4725-ICV4723	P106751A.D	08/18/16	12:15	00:50	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4726-DFTPP
Lab File ID: P106752.D
Instrument ID: GCMSP
Injection Date: 08/18/16
Injection Time: 13:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28751	38.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33733	44.8		Pass
70	Less than 2.0% of mass 69	129	0.17	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	36293	48.2		Pass
197	Less than 1.0% of mass 198	256	0.34		Pass
198	Base peak, 100% relative abundance	75325	100.0		Pass
199	5.0 - 9.0% of mass 198	5319	7.06		Pass
275	10.0 - 30.0% of mass 198	15101	20.0		Pass
365	1.0 - 100.0% of mass 198	1502	1.99		Pass
441	Present, but less than mass 443	6233	8.27	(80.7) [b]	Pass
442	40.0 - 100.0% of mass 198	39962	53.1		Pass
443	17.0 - 23.0% of mass 442	7726	10.3	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4726-CC4722	P106753.D	08/18/16	15:06	01:19	Continuing cal 50
EP4726-CC4723	P106754.D	08/18/16	15:34	01:47	Continuing cal 50
OP96370-MB1	P106756.D	08/18/16	16:31	02:44	Method Blank
OP96370-BS1	P106757.D	08/18/16	16:59	03:12	Blank Spike
ZZZZZZ	P106758.D	08/18/16	17:28	03:41	(unrelated sample)
ZZZZZZ	P106759.D	08/18/16	17:56	04:09	(unrelated sample)
ZZZZZZ	P106760.D	08/18/16	18:24	04:37	(unrelated sample)
ZZZZZZ	P106761.D	08/18/16	18:53	05:06	(unrelated sample)
ZZZZZZ	P106762.D	08/18/16	19:21	05:34	(unrelated sample)
ZZZZZZ	P106763.D	08/18/16	19:49	06:02	(unrelated sample)
ZZZZZZ	P106765.D	08/18/16	20:46	06:59	(unrelated sample)
ZZZZZZ	P106766.D	08/18/16	21:14	07:27	(unrelated sample)
ZZZZZZ	P106767.D	08/18/16	21:42	07:55	(unrelated sample)
ZZZZZZ	P106768.D	08/18/16	22:11	08:24	(unrelated sample)
ZZZZZZ	P106769.D	08/18/16	22:39	08:52	(unrelated sample)
ZZZZZZ	P106770.D	08/18/16	23:07	09:20	(unrelated sample)
ZZZZZZ	P106771.D	08/18/16	23:35	09:48	(unrelated sample)
JC25808-1	P106772.D	08/19/16	00:03	10:16	(used for QC only; not part of job JC25831)
OP96370-MS	P106773.D	08/19/16	00:31	10:44	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	EP4726-DFTPP	**Injection Date:**	08/18/16
Lab File ID:	P106752.D	**Injection Time:**	13:47
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP96370-MSD	P106774.D	08/19/16	00:59	11:12	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4727-DFTPP
Lab File ID: P106775.D
Instrument ID: GCMSP
Injection Date: 08/19/16
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29989	38.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	36274	46.1		Pass
70	Less than 2.0% of mass 69	160	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	38250	48.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	78661	100.0		Pass
199	5.0 - 9.0% of mass 198	5636	7.16		Pass
275	10.0 - 30.0% of mass 198	15405	19.6		Pass
365	1.0 - 100.0% of mass 198	1467	1.86		Pass
441	Present, but less than mass 443	5675	7.21	(79.4) [b]	Pass
442	40.0 - 100.0% of mass 198	36573	46.5		Pass
443	17.0 - 23.0% of mass 442	7150	9.09	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4727-CC4722	P106776.D	08/19/16	08:35	00:12	Continuing cal 25
EP4727-CC4723	P106777.D	08/19/16	09:09	00:46	Continuing cal 25
OP96278-BS1	P106779.D	08/19/16	10:18	01:55	Blank Spike
OP96278-MB1	P106780.D	08/19/16	10:52	02:29	Method Blank
ZZZZZZ	P106781.D	08/19/16	11:26	03:03	(unrelated sample)
ZZZZZZ	P106782.D	08/19/16	12:00	03:37	(unrelated sample)
ZZZZZZ	P106783.D	08/19/16	12:28	04:05	(unrelated sample)
OP96153A-MB1	P106796.D	08/19/16	13:03	04:40	Method Blank
ZZZZZZ	P106799.D	08/19/16	13:31	05:08	(unrelated sample)
ZZZZZZ	P106800.D	08/19/16	13:59	05:36	(unrelated sample)
ZZZZZZ	P106797.D	08/19/16	14:32	06:09	(unrelated sample)
JC25691-2	P106784.D	08/19/16	15:00	06:37	(used for QC only; not part of job JC25831)
OP96278-MS	P106785.D	08/19/16	16:03	07:40	Matrix Spike
OP96278-MSD	P106786.D	08/19/16	16:37	08:14	Matrix Spike Duplicate
ZZZZZZ	P106787.D	08/19/16	17:11	08:48	(unrelated sample)
ZZZZZZ	P106788.D	08/19/16	17:39	09:16	(unrelated sample)
ZZZZZZ	P106789.D	08/19/16	18:07	09:44	(unrelated sample)
ZZZZZZ	P106790.D	08/19/16	18:36	10:13	(unrelated sample)
ZZZZZZ	P106791.D	08/19/16	19:04	10:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4727-DFTPP
Lab File ID: P106775.D
Instrument ID: GCMSP
Injection Date: 08/19/16
Injection Time: 08:23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC25831-8	P106792.D	08/19/16	19:32	11:09	SB-8-S-1
JC25831-9	P106793.D	08/19/16	20:00	11:37	SB-8-S-2

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4730-DFTPP
Lab File ID: P106850.D
Instrument ID: GCMSP
Injection Date: 08/22/16
Injection Time: 09:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17254	38.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	19003	42.9		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	21565	48.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	44346	100.0		Pass
199	5.0 - 9.0% of mass 198	2939	6.63		Pass
275	10.0 - 30.0% of mass 198	9045	20.4		Pass
365	1.0 - 100.0% of mass 198	684	1.54		Pass
441	Present, but less than mass 443	3403	7.67	(76.2) [b]	Pass
442	40.0 - 100.0% of mass 198	21880	49.3		Pass
443	17.0 - 23.0% of mass 442	4468	10.1	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4730-CC4722	P106851.D	08/22/16	09:47	00:18	Continuing cal 50
EP4730-CC4723	P106852.D	08/22/16	10:20	00:51	Continuing cal 50
OP96452-MB1	P106854.D	08/22/16	11:27	01:58	Method Blank
OP96452-BS1	P106855.D	08/22/16	12:01	02:32	Blank Spike
JC25831-10	P106856.D	08/22/16	12:34	03:05	SB-9-S
JC25831-11	P106857.D	08/22/16	13:06	03:37	SB-10-S
ZZZZZZ	P106877.D	08/22/16	13:34	04:05	(unrelated sample)
ZZZZZZ	P106858.D	08/22/16	14:07	04:38	(unrelated sample)
ZZZZZZ	P106859.D	08/22/16	14:40	05:11	(unrelated sample)
ZZZZZZ	P106860.D	08/22/16	15:12	05:43	(unrelated sample)
ZZZZZZ	P106861.D	08/22/16	15:44	06:15	(unrelated sample)
ZZZZZZ	P106862.D	08/22/16	16:17	06:48	(unrelated sample)
ZZZZZZ	P106863.D	08/22/16	16:46	07:17	(unrelated sample)
ZZZZZZ	P106864.D	08/22/16	17:14	07:45	(unrelated sample)
ZZZZZZ	P106865.D	08/22/16	17:48	08:19	(unrelated sample)
JC26013-11	P106866.D	08/22/16	18:16	08:47	(used for QC only; not part of job JC25831)
ZZZZZZ	P106867.D	08/22/16	18:44	09:15	(unrelated sample)
ZZZZZZ	P106868.D	08/22/16	19:13	09:44	(unrelated sample)
ZZZZZZ	P106869.D	08/22/16	19:42	10:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	EP4730-DFTPP	**Injection Date:**	08/22/16
Lab File ID:	P106850.D	**Injection Time:**	09:29
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P106870.D	08/22/16	20:10	10:41	(unrelated sample)
ZZZZZZ	P106871.D	08/22/16	20:39	11:10	(unrelated sample)
ZZZZZZ	P106872.D	08/22/16	21:07	11:38	(unrelated sample)

Semivolatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC25831-1	5P30746A.D	82	101	92
JC25831-2	5P30798.D	84	99	86
JC25831-3	5P30752.D	68	90	107
JC25831-4	5P30748.D	82	92	62
JC25831-5	5P30799.D	111	112	112
JC25831-5	5P30749.D	60	78	96
JC25831-6	5P30750.D	85	98	67
JC25831-7	5P30751.D	73	89	76
JC25831-8	P106792.D	98	101	90
JC25831-9	P106793.D	94	96	84
JC25831-10	P106856.D	119	94	72
JC25831-11	P106857.D	96	96	88
OP96369-BS1	5P30731.D	81	90	96
OP96369-MB1	5P30732.D	89	94	99
OP96369-MB1	3E86014.D	104	92	93
OP96369-MS	5P30741.D	35	39	37
OP96369-MSD	5P30742.D	25* [a]	31* [a]	29* [a]
OP96370-BS1	P106757.D	87	94	97
OP96370-MB1	P106756.D	96	100	87
OP96370-MS	P106773.D	80	86	83
OP96370-MSD	P106774.D	79	84	82

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	26-122%
S2 = 2-Fluorobiphenyl	36-112%
S3 = Terphenyl-d14	36-132%

(a) Outside control limits due to matrix interference.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-MB1	7Y19171.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	13-142%
16416-32-3	Tetracosane-d50	97%	12-141%
438-22-2	5a-Androstane	93%	13-142%

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-MB1	2Y78867.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	114%	13-142%
16416-32-3	Tetracosane-d50	109%	12-141%
438-22-2	5a-Androstane	108%	13-142%

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-MB1	ZZ78591.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	13-142%
16416-32-3	Tetracosane-d50	112%	12-141%
438-22-2	5a-Androstane	112%	13-142%

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-BS1	7Y19172.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	82.5	83	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	94%	13-142%
16416-32-3	Tetracosane-d50	107%	12-141%
438-22-2	5a-Androstane	101%	13-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-BS1	2Y78868.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	75.3	75	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	106%	13-142%
16416-32-3	Tetracosane-d50	109%	12-141%
438-22-2	5a-Androstane	105%	13-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-BS1	ZZ78592.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	92.1	92	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	92%	13-142%
16416-32-3	Tetracosane-d50	119%	12-141%
438-22-2	5a-Androstane	117%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-MS	7Y19175.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
OP96345-MSD	7Y19176.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
JC25831-1	7Y19174.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	JC25831-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		84.2	57.0	68	82.6	50.7	61	12	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25831-1	Limits
84-15-1	o-Terphenyl	79%	72%	84%	13-142%
16416-32-3	Tetracosane-d50	92%	80%	91%	12-141%
438-22-2	5a-Androstane	86%	77%	88%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-MS	2Y78870.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
OP96368-MSD	2Y78871.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
JC25850-13	2Y78869.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	JC25850-13 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		104	63.9	61	95.7	59.5	62	7	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25850-13	Limits
84-15-1	o-Terphenyl	88%	88%	98%	13-142%
16416-32-3	Tetracosane-d50	92%	90%	94%	12-141%
438-22-2	5a-Androstane	89%	88%	93%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-MS	ZZ78594.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813
OP96381-MSD	ZZ78595.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813
JC25937-2	ZZ78593.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	JC25937-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	27.8		98.8	93.3	66	90.5	90.1	69	3	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25937-2	Limits
84-15-1	o-Terphenyl	63%	67%	68%	13-142%
16416-32-3	Tetracosane-d50	87%	84%	84%	12-141%
438-22-2	5a-Androstane	77%	84%	85%	13-142%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]
JC25831-1	7Y19174.D	84	91	88
JC25831-2	ZZ78606.D	85	109	108
JC25831-3	7Y19187.D	84	97	89
JC25831-4	7Y19188.D	79	86	84
JC25831-5	7Y19189.D	322* [b]	109	126
JC25831-6	7Y19192.D	87	95	90
JC25831-7	7Y19193.D	83	93	88
JC25831-8	7Y19194.D	87	97	93
JC25831-9	2Y78884.D	116	110	109
JC25831-10	2Y78887.D	125	97	102
JC25831-11	2Y78888.D	92	88	87
OP96345-BS1	7Y19172.D	94	107	101
OP96345-MB1	7Y19171.D	87	97	93
OP96345-MS	7Y19175.D	79	92	86
OP96345-MSD	7Y19176.D	72	80	77
OP96368-BS1	2Y78868.D	106	109	105
OP96368-MB1	2Y78867.D	114	109	108
OP96368-MS	2Y78870.D	88	92	89
OP96368-MSD	2Y78871.D	88	90	88
OP96381-BS1	ZZ78592.D	92	119	117
OP96381-MB1	ZZ78591.D	89	112	112
OP96381-MS	ZZ78594.D	63	87	77
OP96381-MSD	ZZ78595.D	67	84	84

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	13-142%
S2 = Tetracosane-d50	12-141%
S3 = 5a-Androstane	13-142%

(a) Recovery from GC signal #1
(b) Outside control limits due to matrix interference.

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Automated Report

Technical Report for

Apex Companies, LLC

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-004

SGS Accutest Job Number: JC25831

Sampling Dates: 08/11/16 - 08/12/16

Report to:

Apex Companies, LLC
15850 Crabbs Branch Way
Rockville, MD 20855
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ATTN: Todd Passmore

Total number of pages in report: **162**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

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SGS Accutest

Sample Summary

Apex Companies, LLC

Job No: JC25831

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Project No: AMORT-004

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC25831-1	08/11/16	09:00	TKP	08/15/16	SO	Soil	SB-1-S
JC25831-2	08/11/16	11:30	TKP	08/15/16	SO	Soil	SB-2-S
JC25831-3	08/12/16	10:50	TKP	08/15/16	SO	Soil	SB-3-S
JC25831-4	08/11/16	13:05	TKP	08/15/16	SO	Soil	SB-4-S
JC25831-5	08/11/16	10:55	TKP	08/15/16	SO	Soil	SB-5-S
JC25831-6	08/11/16	09:40	TKP	08/15/16	SO	Soil	SB-6-S
JC25831-7	08/11/16	10:10	TKP	08/15/16	SO	Soil	SB-7-S
JC25831-8	08/11/16	14:05	TKP	08/15/16	SO	Soil	SB-8-S-1
JC25831-9	08/11/16	13:55	TKP	08/15/16	SO	Soil	SB-8-S-2
JC25831-10	08/12/16	09:05	TKP	08/15/16	SO	Soil	SB-9-S
JC25831-11	08/12/16	10:10	TKP	08/15/16	SO	Soil	SB-10-S

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC25831-1	**SB-1-S**					
Chloroform		0.41 J	2.4	0.29	ug/kg	SW846 8260C
Methylene chloride		1.1 J	6.1	0.42	ug/kg	SW846 8260C
JC25831-2	**SB-2-S**					
Methylene chloride		0.65 J	6.0	0.41	ug/kg	SW846 8260C
TPH-DRO (C10-C28)		39.8	11	3.2	mg/kg	SW846 8015C
JC25831-3	**SB-3-S**					
Acetone		23.6	14	2.6	ug/kg	SW846 8260C
Styrene		0.28 J	2.8	0.20	ug/kg	SW846 8260C
JC25831-4	**SB-4-S**					
Methylene chloride		1.1 J	6.1	0.42	ug/kg	SW846 8260C
JC25831-5	**SB-5-S**					
Benzene		36.0 J	64	15	ug/kg	SW846 8260C
n-Butylbenzene		6950	260	19	ug/kg	SW846 8260C
sec-Butylbenzene		5180	260	20	ug/kg	SW846 8260C
tert-Butylbenzene		134 J	260	20	ug/kg	SW846 8260C
Ethylbenzene		1930	130	19	ug/kg	SW846 8260C
Isopropylbenzene		1090	260	20	ug/kg	SW846 8260C
p-Isopropyltoluene		5010	260	31	ug/kg	SW846 8260C
Naphthalene		8230	640	19	ug/kg	SW846 8260C
n-Propylbenzene		2610	260	25	ug/kg	SW846 8260C
Toluene		1630	130	16	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		40600	2600	220	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		16000	260	21	ug/kg	SW846 8260C
m,p-Xylene		12900	130	28	ug/kg	SW846 8260C
o-Xylene		8170	130	26	ug/kg	SW846 8260C
Xylene (total)		21100	130	26	ug/kg	SW846 8260C
Benzo(a)anthracene		21.6 J	39	11	ug/kg	SW846 8270D
Chrysene		39.6	39	12	ug/kg	SW846 8270D
Fluorene		771	39	18	ug/kg	SW846 8270D
Naphthalene		3310	390	110	ug/kg	SW846 8270D
Phenanthrene		1690	39	13	ug/kg	SW846 8270D
Pyrene		574	39	12	ug/kg	SW846 8270D
TPH-DRO (C10-C28)		2380	7.1	2.0	mg/kg	SW846 8015C

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC25831-6	**SB-6-S**					
Methylene chloride		1.4 J	7.2	0.49	ug/kg	SW846 8260C
JC25831-7	**SB-7-S**					
Methylene chloride		0.66 J	5.7	0.39	ug/kg	SW846 8260C
JC25831-8	**SB-8-S-1**					
Methylene chloride		0.82 J	7.0	0.48	ug/kg	SW846 8260C
JC25831-9	**SB-8-S-2**					
n-Butylbenzene		0.34 J	2.2	0.17	ug/kg	SW846 8260C
sec-Butylbenzene		1.1 J	2.2	0.17	ug/kg	SW846 8260C
Ethylbenzene		0.61 J	1.1	0.16	ug/kg	SW846 8260C
Isopropylbenzene		0.30 J	2.2	0.17	ug/kg	SW846 8260C
p-Isopropyltoluene		1.5 J	2.2	0.27	ug/kg	SW846 8260C
Methylene chloride		1.1 J	5.5	0.38	ug/kg	SW846 8260C
Naphthalene		23.5	5.5	0.16	ug/kg	SW846 8260C
n-Propylbenzene		0.58 J	2.2	0.22	ug/kg	SW846 8260C
Toluene		0.47 J	1.1	0.14	ug/kg	SW846 8260C
1,2,3-Trichlorobenzene		2.0 J	5.5	0.25	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		91.8	2.2	0.19	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		70.3	2.2	0.18	ug/kg	SW846 8260C
m,p-Xylene		6.6	1.1	0.24	ug/kg	SW846 8260C
o-Xylene		20.6	1.1	0.22	ug/kg	SW846 8260C
Xylene (total)		27.2	1.1	0.22	ug/kg	SW846 8260C
JC25831-10	**SB-9-S**					
n-Butylbenzene		27700	290	22	ug/kg	SW846 8260C
sec-Butylbenzene		17300	290	22	ug/kg	SW846 8260C
tert-Butylbenzene		533	290	23	ug/kg	SW846 8260C
Ethylbenzene		10600	140	21	ug/kg	SW846 8260C
Isopropylbenzene		7510	290	22	ug/kg	SW846 8260C
p-Isopropyltoluene		15700	290	35	ug/kg	SW846 8260C
Naphthalene		16900	720	21	ug/kg	SW846 8260C
n-Propylbenzene		21400	290	28	ug/kg	SW846 8260C
Toluene		1890	140	18	ug/kg	SW846 8260C
1,2,4-Trimethylbenzene		151000	2900	250	ug/kg	SW846 8260C
1,3,5-Trimethylbenzene		53100	2900	240	ug/kg	SW846 8260C
m,p-Xylene		50100	140	31	ug/kg	SW846 8260C
o-Xylene		28800	1400	290	ug/kg	SW846 8260C

Summary of Hits

Job Number: JC25831
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 08/11/16 thru 08/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		78900	1400	290	ug/kg	SW846 8260C
Fluorene		241	43	20	ug/kg	SW846 8270D
Naphthalene		623	43	12	ug/kg	SW846 8270D
Phenanthrene		371	43	15	ug/kg	SW846 8270D
Pyrene		157	43	14	ug/kg	SW846 8270D
TPH-DRO (C10-C28)		1860	13	3.6	mg/kg	SW846 8015C
JC25831-11	**SB-10-S**					
Methylene chloride		0.69 J	5.1	0.35	ug/kg	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165993.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.3	ug/kg	
71-43-2	Benzene	ND	0.61	0.15	ug/kg	
108-86-1	Bromobenzene	ND	6.1	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	6.1	0.33	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.59	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.19	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.20	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.52	ug/kg	
67-66-3	Chloroform	0.41	2.4	0.29	ug/kg	J
74-87-3	Chloromethane	ND	6.1	0.26	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.25	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.30	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.59	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.54	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.38	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.19	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.19	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.1	0.46	ug/kg	
75-09-2	Methylene chloride	1.1	6.1	0.42	ug/kg	J
91-20-3	Naphthalene	ND	6.1	0.18	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.18	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	31	3.7	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.65	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.32	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.34	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.28	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.40	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.77	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	0.94	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.25	ug/kg	
	m,p-Xylene	ND	1.2	0.27	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	98%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30746A.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	20	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	19	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	20	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		26-122%
321-60-8	2-Fluorobiphenyl	101%		36-112%
1718-51-0	Terphenyl-d14	92%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1-S		
Lab Sample ID:	JC25831-1	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	77.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19174.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.5	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		13-142%
16416-32-3	Tetracosane-d50	91%		12-141%
438-22-2	5a-Androstane	88%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.2	ug/kg	
71-43-2	Benzene	ND	0.60	0.14	ug/kg	
108-86-1	Bromobenzene	ND	6.0	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.18	ug/kg	
75-25-2	Bromoform	ND	6.0	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.58	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.18	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.18	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.19	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.51	ug/kg	
67-66-3	Chloroform	ND	2.4	0.28	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.25	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.24	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.29	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.58	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.65	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.18	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.37	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.23	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.18	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.0	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.18	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.29	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.0	0.45	ug/kg	
75-09-2	Methylene chloride	0.65	6.0	0.41	ug/kg	J
91-20-3	Naphthalene	ND	6.0	0.17	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.17	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	30	3.6	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.64	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.31	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.33	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.27	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.38	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.75	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	0.92	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.24	ug/kg	
	m,p-Xylene	ND	1.2	0.26	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.24	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30798.D	1	08/22/16	AN	08/17/16	OP96369	E5P1565
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	19	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	18	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	20	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		26-122%
321-60-8	2-Fluorobiphenyl	99%		36-112%
1718-51-0	Terphenyl-d14	86%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2-S		
Lab Sample ID:	JC25831-2	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.3
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ78606.D	1	08/19/16	TL	08/17/16	OP96381	GZZ2813
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	39.8	11	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		13-142%
16416-32-3	Tetracosane-d50	109%		12-141%
438-22-2	5a-Androstane	108%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	3.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	23.6	14	2.6	ug/kg	
71-43-2	Benzene	ND	0.69	0.17	ug/kg	
108-86-1	Bromobenzene	ND	6.9	0.21	ug/kg	
74-97-5	Bromochloromethane	ND	6.9	0.44	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.21	ug/kg	
75-25-2	Bromoform	ND	6.9	0.37	ug/kg	
74-83-9	Bromomethane	ND	6.9	0.67	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.4	ug/kg	
104-51-8	n-Butylbenzene	ND	2.8	0.21	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.8	0.21	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.8	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.22	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.59	ug/kg	
67-66-3	Chloroform	ND	2.8	0.33	ug/kg	
74-87-3	Chloromethane	ND	6.9	0.29	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.8	0.28	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.8	0.34	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.8	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	0.75	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.60	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.43	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.8	0.27	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.8	0.21	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.8	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.30	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.9	0.22	ug/kg	
98-82-8	Isopropylbenzene	ND	2.8	0.21	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.8	0.34	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	1.2	ug/kg	
74-95-3	Methylene bromide	ND	6.9	0.52	ug/kg	
75-09-2	Methylene chloride	ND	6.9	0.47	ug/kg	
91-20-3	Naphthalene	ND	6.9	0.20	ug/kg	
103-65-1	n-Propylbenzene	ND	2.8	0.27	ug/kg	
100-42-5	Styrene	0.28	2.8	0.20	ug/kg	J
75-65-0	Tert Butyl Alcohol	ND	34	4.2	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.8	0.73	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.8	0.36	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.8	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.39	ug/kg	
108-88-3	Toluene	ND	1.4	0.17	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.9	0.31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	0.25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.44	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.26	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.9	0.87	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.9	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.8	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.8	0.23	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.28	ug/kg	
	m,p-Xylene	ND	1.4	0.30	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30752.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	15	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	14	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	15	ug/kg	
91-20-3	Naphthalene	ND	33	9.2	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		26-122%
321-60-8	2-Fluorobiphenyl	90%		36-112%
1718-51-0	Terphenyl-d14	107%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3-S		
Lab Sample ID:	JC25831-3	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	98.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19187.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.1	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	89%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165996.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.3	ug/kg	
71-43-2	Benzene	ND	0.61	0.15	ug/kg	
108-86-1	Bromobenzene	ND	6.1	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	6.1	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.59	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	2.4	0.19	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.4	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.20	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.52	ug/kg	
67-66-3	Chloroform	ND	2.4	0.29	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.26	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.4	0.25	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.4	0.30	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.59	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.53	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.38	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.4	0.24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.4	0.19	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.4	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	0.19	ug/kg	
98-82-8	Isopropylbenzene	ND	2.4	0.19	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.4	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	1.0	ug/kg	
74-95-3	Methylene bromide	ND	6.1	0.46	ug/kg	
75-09-2	Methylene chloride	1.1	6.1	0.42	ug/kg	J
91-20-3	Naphthalene	ND	6.1	0.18	ug/kg	
103-65-1	n-Propylbenzene	ND	2.4	0.24	ug/kg	
100-42-5	Styrene	ND	2.4	0.18	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	31	3.7	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.4	0.65	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.4	0.32	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.34	ug/kg	
108-88-3	Toluene	ND	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.28	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.39	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.77	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	0.94	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.25	ug/kg	
	m,p-Xylene	ND	1.2	0.27	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30748.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	38	13	ug/kg	
208-96-8	Acenaphthylene	ND	38	19	ug/kg	
120-12-7	Anthracene	ND	38	23	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	18	ug/kg	
218-01-9	Chrysene	ND	38	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	17	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	18	ug/kg	
91-20-3	Naphthalene	ND	38	11	ug/kg	
85-01-8	Phenanthrene	ND	38	13	ug/kg	
129-00-0	Pyrene	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		26-122%
321-60-8	2-Fluorobiphenyl	92%		36-112%
1718-51-0	Terphenyl-d14	62%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4-S		
Lab Sample ID:	JC25831-4	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	81.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19188.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.0	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		13-142%
16416-32-3	Tetracosane-d50	86%		12-141%
438-22-2	5a-Androstane	84%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D242700.D	1	08/24/16	TP	n/a	n/a	VD9865
Run #2	D242685.D	1	08/24/16	TP	n/a	n/a	VD9865

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	10.0 ml	100 ul
Run #2	5.1 g	10.0 ml	10.0 ul

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	240	ug/kg	
71-43-2	Benzene	36.0	64	15	ug/kg	J
108-86-1	Bromobenzene	ND	640	20	ug/kg	
74-97-5	Bromochloromethane	ND	640	41	ug/kg	
75-27-4	Bromodichloromethane	ND	260	19	ug/kg	
75-25-2	Bromoform	ND	640	34	ug/kg	
74-83-9	Bromomethane	ND	640	62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	230	ug/kg	
104-51-8	n-Butylbenzene	6950	260	19	ug/kg	
135-98-8	sec-Butylbenzene	5180	260	20	ug/kg	
98-06-6	tert-Butylbenzene	134	260	20	ug/kg	J
56-23-5	Carbon tetrachloride	ND	260	21	ug/kg	
108-90-7	Chlorobenzene	ND	260	21	ug/kg	
75-00-3	Chloroethane	ND	640	55	ug/kg	
67-66-3	Chloroform	ND	260	30	ug/kg	
74-87-3	Chloromethane	ND	640	27	ug/kg	
95-49-8	o-Chlorotoluene	ND	260	26	ug/kg	
106-43-4	p-Chlorotoluene	ND	260	31	ug/kg	
108-20-3	Di-Isopropyl ether	ND	260	17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	260	62	ug/kg	
124-48-1	Dibromochloromethane	ND	260	19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	130	31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	130	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	130	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	130	20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	640	70	ug/kg	
75-34-3	1,1-Dichloroethane	ND	130	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	130	22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	130	20	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	130	56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	130	20	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	40	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	260	25	ug/kg	
594-20-7	2,2-Dichloropropane	ND	260	20	ug/kg	
563-58-6	1,1-Dichloropropene	ND	260	20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	28	ug/kg	
100-41-4	Ethylbenzene	1930	130	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	640	20	ug/kg	
98-82-8	Isopropylbenzene	1090	260	20	ug/kg	
99-87-6	p-Isopropyltoluene	5010	260	31	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	130	34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	640	110	ug/kg	
74-95-3	Methylene bromide	ND	640	48	ug/kg	
75-09-2	Methylene chloride	ND	640	44	ug/kg	
91-20-3	Naphthalene	8230	640	19	ug/kg	
103-65-1	n-Propylbenzene	2610	260	25	ug/kg	
100-42-5	Styrene	ND	260	19	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	3200	390	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	260	68	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	260	33	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	260	27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	31	ug/kg	
127-18-4	Tetrachloroethene	ND	260	36	ug/kg	
108-88-3	Toluene	1630	130	16	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	640	29	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	640	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	41	ug/kg	
79-01-6	Trichloroethene	ND	130	24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	640	80	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	640	99	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	40600 [a]	2600	220	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	16000	260	21	ug/kg	
75-01-4	Vinyl chloride	ND	260	26	ug/kg	
	m,p-Xylene	12900	130	28	ug/kg	
95-47-6	o-Xylene	8170	130	26	ug/kg	
1330-20-7	Xylene (total)	21100	130	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	102%	68-124%
2037-26-5	Toluene-D8	102%	101%	77-125%
460-00-4	4-Bromofluorobenzene	102%	99%	72-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30749.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2	5P30799.D	10	08/22/16	AN	08/17/16	OP96369	E5P1565

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2	30.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	39	13	ug/kg	
208-96-8	Acenaphthylene	ND	39	20	ug/kg	
120-12-7	Anthracene	ND	39	24	ug/kg	
56-55-3	Benzo(a)anthracene	21.6	39	11	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	39	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	18	ug/kg	
218-01-9	Chrysene	39.6	39	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	17	ug/kg	
206-44-0	Fluoranthene	ND	39	17	ug/kg	
86-73-7	Fluorene	771	39	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	18	ug/kg	
91-20-3	Naphthalene	3310 [a]	390	110	ug/kg	
85-01-8	Phenanthrene	1690	39	13	ug/kg	
129-00-0	Pyrene	574	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%	111%	26-122%
321-60-8	2-Fluorobiphenyl	78%	112%	36-112%
1718-51-0	Terphenyl-d14	96%	112%	36-132%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5-S		
Lab Sample ID:	JC25831-5	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	83.2
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19189.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2380	7.1	2.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	322% [a]		13-142%
16416-32-3	Tetracosane-d50	109%		12-141%
438-22-2	5a-Androstane	126%		13-142%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X165997.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.7	ug/kg	
71-43-2	Benzene	ND	0.72	0.17	ug/kg	
108-86-1	Bromobenzene	ND	7.2	0.22	ug/kg	
74-97-5	Bromochloromethane	ND	7.2	0.46	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.22	ug/kg	
75-25-2	Bromoform	ND	7.2	0.38	ug/kg	
74-83-9	Bromomethane	ND	7.2	0.70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	2.9	0.22	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.9	0.22	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.9	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	0.24	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.23	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.62	ug/kg	
67-66-3	Chloroform	ND	2.9	0.34	ug/kg	
74-87-3	Chloromethane	ND	7.2	0.30	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.9	0.29	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.9	0.35	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.9	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	0.70	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.35	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	0.79	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.45	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.9	0.28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.9	0.22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.9	0.23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.32	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.2	0.23	ug/kg	
98-82-8	Isopropylbenzene	ND	2.9	0.22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.9	0.35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	1.2	ug/kg	
74-95-3	Methylene bromide	ND	7.2	0.54	ug/kg	
75-09-2	Methylene chloride	1.4	7.2	0.49	ug/kg	J
91-20-3	Naphthalene	ND	7.2	0.21	ug/kg	
103-65-1	n-Propylbenzene	ND	2.9	0.29	ug/kg	
100-42-5	Styrene	ND	2.9	0.21	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	36	4.4	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.9	0.77	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.9	0.37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.9	0.31	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.41	ug/kg	
108-88-3	Toluene	ND	1.4	0.18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	0.33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.47	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.91	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.2	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.9	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.9	0.24	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.29	ug/kg	
	m,p-Xylene	ND	1.4	0.32	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30750.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
120-12-7	Anthracene	ND	42	25	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	19	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	18	ug/kg	
206-44-0	Fluoranthene	ND	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	19	ug/kg	
91-20-3	Naphthalene	ND	42	12	ug/kg	
85-01-8	Phenanthrene	ND	42	14	ug/kg	
129-00-0	Pyrene	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		26-122%
321-60-8	2-Fluorobiphenyl	98%		36-112%
1718-51-0	Terphenyl-d14	67%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6-S		
Lab Sample ID:	JC25831-6	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.8
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19192.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.3	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		13-142%
16416-32-3	Tetracosane-d50	95%		12-141%
438-22-2	5a-Androstane	90%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166007.D	1	08/24/16	TP	n/a	n/a	VX7110
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.1	ug/kg	
71-43-2	Benzene	ND	0.57	0.14	ug/kg	
108-86-1	Bromobenzene	ND	5.7	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.17	ug/kg	
75-25-2	Bromoform	ND	5.7	0.30	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.55	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	2.3	0.17	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.3	0.17	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.3	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.48	ug/kg	
67-66-3	Chloroform	ND	2.3	0.27	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.24	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.3	0.23	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.3	0.28	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.3	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.55	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.62	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.18	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.35	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.3	0.22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.3	0.17	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.3	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.7	0.18	ug/kg	
98-82-8	Isopropylbenzene	ND	2.3	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.3	0.28	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.96	ug/kg	
74-95-3	Methylene bromide	ND	5.7	0.43	ug/kg	
75-09-2	Methylene chloride	0.66	5.7	0.39	ug/kg	J
91-20-3	Naphthalene	ND	5.7	0.16	ug/kg	
103-65-1	n-Propylbenzene	ND	2.3	0.22	ug/kg	
100-42-5	Styrene	ND	2.3	0.16	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	28	3.4	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.3	0.60	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.3	0.29	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.3	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.27	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.32	ug/kg	
108-88-3	Toluene	ND	1.1	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.37	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.71	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.7	0.87	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.3	0.20	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	0.19	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.23	ug/kg	
	m,p-Xylene	ND	1.1	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P30751.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563
Run #2							

	Initial Weight	Final Volume
Run #1	32.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	15	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	15	ug/kg	
91-20-3	Naphthalene	ND	33	9.3	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		26-122%
321-60-8	2-Fluorobiphenyl	89%		36-112%
1718-51-0	Terphenyl-d14	76%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7-S		
Lab Sample ID:	JC25831-7	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19193.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		13-142%
16416-32-3	Tetracosane-d50	93%		12-141%
438-22-2	5a-Androstane	88%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166027.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.6	ug/kg	
71-43-2	Benzene	ND	0.70	0.17	ug/kg	
108-86-1	Bromobenzene	ND	7.0	0.22	ug/kg	
74-97-5	Bromochloromethane	ND	7.0	0.45	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.21	ug/kg	
75-25-2	Bromoform	ND	7.0	0.37	ug/kg	
74-83-9	Bromomethane	ND	7.0	0.68	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	2.8	0.21	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.8	0.22	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.8	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.23	ug/kg	
75-00-3	Chloroethane	ND	7.0	0.60	ug/kg	
67-66-3	Chloroform	ND	2.8	0.34	ug/kg	
74-87-3	Chloromethane	ND	7.0	0.30	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.8	0.29	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.8	0.34	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.8	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.68	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.34	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.0	0.77	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.44	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.8	0.28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.8	0.22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.8	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.31	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.0	0.22	ug/kg	
98-82-8	Isopropylbenzene	ND	2.8	0.22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.8	0.34	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	1.2	ug/kg	
74-95-3	Methylene bromide	ND	7.0	0.53	ug/kg	
75-09-2	Methylene chloride	0.82	7.0	0.48	ug/kg	J
91-20-3	Naphthalene	ND	7.0	0.20	ug/kg	
103-65-1	n-Propylbenzene	ND	2.8	0.28	ug/kg	
100-42-5	Styrene	ND	2.8	0.20	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	35	4.3	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.8	0.75	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.8	0.36	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.8	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.40	ug/kg	
108-88-3	Toluene	ND	1.4	0.18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	0.32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	0.26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.46	ug/kg	
79-01-6	Trichloroethene	ND	1.4	0.27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.0	0.89	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.8	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.8	0.23	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.28	ug/kg	
	m,p-Xylene	ND	1.4	0.31	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	95%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106792.D	1	08/19/16	AC	08/17/16	OP96370	EP4727
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	43	15	ug/kg	
208-96-8	Acenaphthylene	ND	43	22	ug/kg	
120-12-7	Anthracene	ND	43	26	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	20	ug/kg	
218-01-9	Chrysene	ND	43	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	19	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	ND	43	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	20	ug/kg	
91-20-3	Naphthalene	ND	43	12	ug/kg	
85-01-8	Phenanthrene	ND	43	14	ug/kg	
129-00-0	Pyrene	ND	43	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	98%		26-122%
321-60-8	2-Fluorobiphenyl	101%		36-112%
1718-51-0	Terphenyl-d14	90%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-1		
Lab Sample ID:	JC25831-8	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	75.5
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Y19194.D	1	08/18/16	TL	08/16/16	OP96345	G7Y759
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	8.7	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	93%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.1	ug/kg	
71-43-2	Benzene	ND	0.55	0.13	ug/kg	
108-86-1	Bromobenzene	ND	5.5	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.5	0.29	ug/kg	
74-83-9	Bromomethane	ND	5.5	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	1.9	ug/kg	
104-51-8	n-Butylbenzene	0.34	2.2	0.17	ug/kg	J
135-98-8	sec-Butylbenzene	1.1	2.2	0.17	ug/kg	J
98-06-6	tert-Butylbenzene	ND	2.2	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.47	ug/kg	
67-66-3	Chloroform	ND	2.2	0.26	ug/kg	
74-87-3	Chloromethane	ND	5.5	0.23	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.2	0.22	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.2	0.27	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.53	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	0.60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.48	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.17	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.34	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.2	0.22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.2	0.17	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.2	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.24	ug/kg	
100-41-4	Ethylbenzene	0.61	1.1	0.16	ug/kg	J
87-68-3	Hexachlorobutadiene	ND	5.5	0.17	ug/kg	
98-82-8	Isopropylbenzene	0.30	2.2	0.17	ug/kg	J
99-87-6	p-Isopropyltoluene	1.5	2.2	0.27	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	0.93	ug/kg	
74-95-3	Methylene bromide	ND	5.5	0.41	ug/kg	
75-09-2	Methylene chloride	1.1	5.5	0.38	ug/kg	J
91-20-3	Naphthalene	23.5	5.5	0.16	ug/kg	
103-65-1	n-Propylbenzene	0.58	2.2	0.22	ug/kg	J
100-42-5	Styrene	ND	2.2	0.16	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	27	3.3	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.2	0.59	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.2	0.28	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.2	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.31	ug/kg	
108-88-3	Toluene	0.47	1.1	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	2.0	5.5	0.25	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.35	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	0.69	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	0.85	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	91.8	2.2	0.19	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	70.3	2.2	0.18	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.22	ug/kg	
	m,p-Xylene	6.6	1.1	0.24	ug/kg	
95-47-6	o-Xylene	20.6	1.1	0.22	ug/kg	
1330-20-7	Xylene (total)	27.2	1.1	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		68-124%
2037-26-5	Toluene-D8	104%		77-125%
460-00-4	4-Bromofluorobenzene	88%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106793.D	1	08/19/16	AC	08/17/16	OP96370	EP4727
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	34	12	ug/kg	
208-96-8	Acenaphthylene	ND	34	17	ug/kg	
120-12-7	Anthracene	ND	34	21	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	9.7	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	16	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	15	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	16	ug/kg	
91-20-3	Naphthalene	ND	34	9.7	ug/kg	
85-01-8	Phenanthrene	ND	34	12	ug/kg	
129-00-0	Pyrene	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		26-122%
321-60-8	2-Fluorobiphenyl	96%		36-112%
1718-51-0	Terphenyl-d14	84%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8-S-2		
Lab Sample ID:	JC25831-9	**Date Sampled:**	08/11/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.9
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78884.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	9.9	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	116%		13-142%
16416-32-3	Tetracosane-d50	110%		12-141%
438-22-2	5a-Androstane	109%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309
Run #2	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	10.0 ml	100 ul
Run #2	5.4 g	10.0 ml	10.0 ul

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1400	270	ug/kg	
71-43-2	Benzene	ND	72	17	ug/kg	
108-86-1	Bromobenzene	ND	720	22	ug/kg	
74-97-5	Bromochloromethane	ND	720	46	ug/kg	
75-27-4	Bromodichloromethane	ND	290	22	ug/kg	
75-25-2	Bromoform	ND	720	38	ug/kg	
74-83-9	Bromomethane	ND	720	70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1400	250	ug/kg	
104-51-8	n-Butylbenzene	27700	290	22	ug/kg	
135-98-8	sec-Butylbenzene	17300	290	22	ug/kg	
98-06-6	tert-Butylbenzene	533	290	23	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	24	ug/kg	
108-90-7	Chlorobenzene	ND	290	23	ug/kg	
75-00-3	Chloroethane	ND	720	62	ug/kg	
67-66-3	Chloroform	ND	290	34	ug/kg	
74-87-3	Chloromethane	ND	720	30	ug/kg	
95-49-8	o-Chlorotoluene	ND	290	29	ug/kg	
106-43-4	p-Chlorotoluene	ND	290	35	ug/kg	
108-20-3	Di-Isopropyl ether	ND	290	19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	70	ug/kg	
124-48-1	Dibromochloromethane	ND	290	22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	140	35	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	140	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	140	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	140	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	720	78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	140	27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	140	22	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	140	63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	140	23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	44	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	290	28	ug/kg	
594-20-7	2,2-Dichloropropane	ND	290	22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	290	23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	32	ug/kg	
100-41-4	Ethylbenzene	10600	140	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	720	23	ug/kg	
98-82-8	Isopropylbenzene	7510	290	22	ug/kg	
99-87-6	p-Isopropyltoluene	15700	290	35	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	720	120	ug/kg	
74-95-3	Methylene bromide	ND	720	54	ug/kg	
75-09-2	Methylene chloride	ND	720	49	ug/kg	
91-20-3	Naphthalene	16900	720	21	ug/kg	
103-65-1	n-Propylbenzene	21400	290	28	ug/kg	
100-42-5	Styrene	ND	290	21	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	3600	440	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	290	77	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	290	37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	290	30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	34	ug/kg	
127-18-4	Tetrachloroethene	ND	290	40	ug/kg	
108-88-3	Toluene	1890	140	18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	720	32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	720	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	46	ug/kg	
79-01-6	Trichloroethene	ND	140	27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	720	90	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	720	110	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	151000 [a]	2900	250	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	53100 [a]	2900	240	ug/kg	
75-01-4	Vinyl chloride	ND	290	29	ug/kg	
	m,p-Xylene	50100	140	31	ug/kg	
95-47-6	o-Xylene	28800 [a]	1400	290	ug/kg	
1330-20-7	Xylene (total)	78900 [a]	1400	290	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	112%	70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%	119%	68-124%
2037-26-5	Toluene-D8	113%	97%	77-125%
460-00-4	4-Bromofluorobenzene	99%	93%	72-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106856.D	1	08/22/16	RL	08/17/16	OP96370	EP4730
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	43	15	ug/kg	
208-96-8	Acenaphthylene	ND	43	22	ug/kg	
120-12-7	Anthracene	ND	43	27	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	20	ug/kg	
218-01-9	Chrysene	ND	43	14	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	19	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	241	43	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	20	ug/kg	
91-20-3	Naphthalene	623	43	12	ug/kg	
85-01-8	Phenanthrene	371	43	15	ug/kg	
129-00-0	Pyrene	157	43	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	119%		26-122%
321-60-8	2-Fluorobiphenyl	94%		36-112%
1718-51-0	Terphenyl-d14	72%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9-S		
Lab Sample ID:	JC25831-10	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.6
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78887.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1860	13	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	125%		13-142%
16416-32-3	Tetracosane-d50	97%		12-141%
438-22-2	5a-Androstane	102%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.51	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.1	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.1	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.16	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.16	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.44	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.22	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.21	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.32	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.16	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.16	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.87	ug/kg	
74-95-3	Methylene bromide	ND	5.1	0.38	ug/kg	
75-09-2	Methylene chloride	0.69	5.1	0.35	ug/kg	J
91-20-3	Naphthalene	ND	5.1	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	26	3.1	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.54	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.29	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.33	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.64	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	0.79	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8260C	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P106857.D	1	08/22/16	RL	08/17/16	OP96370	EP4730
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
120-12-7	Anthracene	ND	35	22	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	17	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	16	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	17	ug/kg	
91-20-3	Naphthalene	ND	35	10	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	96%		26-122%
321-60-8	2-Fluorobiphenyl	96%		36-112%
1718-51-0	Terphenyl-d14	88%		36-132%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10-S		
Lab Sample ID:	JC25831-11	**Date Sampled:**	08/12/16
Matrix:	SO - Soil	**Date Received:**	08/15/16
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.7
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y78888.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	11	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		13-142%
16416-32-3	Tetracosane-d50	88%		12-141%
438-22-2	5a-Androstane	87%		13-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking # 6780 9736 1073
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # JC 25831

Client / Reporting Information

Company Name: Apex
Street Address: 15850 Crabbs Branch Way
City: Rockville State: MD Zip: 20855
Project Contact: Todd Pressmore E-mail: tpressmore@apexcos.com
Phone #: 410 977 2896 Fax #:
Sampler(s) Name(s): TKP Phone #:

Project Information

Project Name: North Point Govt Facility
Street: 7701 Wise Ave
City: Dundalk State: MD
Project #: ANORT-004
Client Purchase Order #:
Project Manager: Todd Pressmore

Billing Information (if different from Report to)

Company Name: Same
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TPH-GRO 8015	PAHs 8270	VOCs + Fuel Oxygenates	LAB USE ONLY
1	SB-1-S		8/11/16	0900	TKP	S	5						2	1		X	X	X	DJ
2	SB-2-S		↓	1130															P39
3	SB-3-S		8/12/16	1050															14D4
4	SB-4-S		8/11/16	1305															4948
5	SB-5-S			1055															
6	SB-6-S			0940															
7	SB-7-S			1010															
8	SB-8-S-1			1405															
9	SB-8-S-2		↓	1355															
10	SB-9-S		8/12/16	0905															
11	SB-10-S		↓	1010	↓	↓	↓						↓	↓		↓	↓	↓	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

D.I. slurry voc vials frozen storage
Date: 8-15-16 Time: 1039 Initials: BJ

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT RJH
LABEL VERIFICATION RJ

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 TKP	8/12/16 1300	1 FEDEX	2 FEDEX	8-15-16 9:00	2 BJ
3		3	4		4
5		5			

Custody Seal # 540 [x] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [x] Cooler Temp: 24.3 °C IP

JC25831: Chain of Custody
Page 1 of 4

SGS ACCUTEST

Soil VOC Vial Tracking Log

JOB NUMBER: JC 25831

SAMPLE #	MeOH	MeOH	DIH2O / NaHSO4	DIH2O / NaHSO4
-1	937		343	344
-2	5734		113	114
-3	3840		4159	4160
-4	5738		345	346
-5	5737		119	120
-6	5732		347	348
-7	5735		115	116
-8	5736		117	118
-9	936		341	342
-10	935		339	340
-11	5733		111	112

All strike outs must be initialed & dated. A reason code applied if not a transcription error.

Form: SM087-01

Rev Date: 6/1/16

JC25831: Chain of Custody

Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: JC25831 **Client:** APEX **Project:** NORTHPORT GOVT. FACILITY

Date / Time Received: 8/15/2016 9:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 6780 9736 1073

Cooler Temps (Raw Measured) °C: Cooler 1: (24.3);

Cooler Temps (Corrected) °C: Cooler 1: (25.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☑
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☐		☑
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments 1) REC'D 1 8OZ JAR & 1 60 ML , SOIL, 1 MEOH & 2 DI VIALS -1 THRU -11 REC'D OUT OF HOLD. -1 & -2 & -4 THRU -9 COLLECTED 8/11/16 AL OTHERS 8/12/16

2) COOLER REC'D WITH A TEMP OF 24.3 DEG C IP, ICE BAGS ARE MELTED.

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC25831

CSR: Kelly **Response Date:** 8/15/2016

Response: Please proceed with all analysis.

JC25831: Chain of Custody
Page 4 of 4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB	D242681.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	99%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	100%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.15	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.15	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.15	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.38	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.34	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	25	3.0	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.53	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.77	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.17	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-MB	X165990.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	96%	68-124%
2037-26-5	Toluene-D8	97%	77-125%
460-00-4	4-Bromofluorobenzene	98%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-MB1	E237745.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	70-122%
17060-07-0	1,2-Dichloroethane-D4	117%	68-124%
2037-26-5	Toluene-D8	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.9	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.15	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.15	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	0.24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2.0	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	0.20	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	0.15	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.16	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.38	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.34	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.15	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	25	3.0	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.53	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.26	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.77	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.17	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-MB	X166023.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	95%	68-124%
2037-26-5	Toluene-D8	98%	77-125%
460-00-4	4-Bromofluorobenzene	96%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	94	ug/kg	
71-43-2	Benzene	ND	25	6.0	ug/kg	
108-86-1	Bromobenzene	ND	250	7.7	ug/kg	
74-97-5	Bromochloromethane	ND	250	16	ug/kg	
75-27-4	Bromodichloromethane	ND	100	7.6	ug/kg	
75-25-2	Bromoform	ND	250	13	ug/kg	
74-83-9	Bromomethane	ND	250	24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	88	ug/kg	
104-51-8	n-Butylbenzene	ND	100	7.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	100	7.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	100	7.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	8.3	ug/kg	
108-90-7	Chlorobenzene	ND	100	8.1	ug/kg	
75-00-3	Chloroethane	ND	250	21	ug/kg	
67-66-3	Chloroform	ND	100	12	ug/kg	
74-87-3	Chloromethane	ND	250	11	ug/kg	
95-49-8	o-Chlorotoluene	ND	100	10	ug/kg	
106-43-4	p-Chlorotoluene	ND	100	12	ug/kg	
108-20-3	Di-Isopropyl ether	ND	100	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	24	ug/kg	
124-48-1	Dibromochloromethane	ND	100	7.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	50	8.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	50	6.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	50	7.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	50	9.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	8.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	50	7.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	50	22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	50	7.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	15	ug/kg	
142-28-9	1,3-Dichloropropane	ND	100	9.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	100	7.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	100	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	9.8	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	100	11	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	7.9	ug/kg	
98-82-8	Isopropylbenzene	ND	100	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	100	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	42	ug/kg	
74-95-3	Methylene bromide	ND	250	19	ug/kg	
75-09-2	Methylene chloride	ND	250	17	ug/kg	
91-20-3	Naphthalene	ND	250	7.3	ug/kg	
103-65-1	n-Propylbenzene	ND	100	9.9	ug/kg	
100-42-5	Styrene	ND	100	7.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1300	150	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	100	27	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	100	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	12	ug/kg	
127-18-4	Tetrachloroethene	ND	100	14	ug/kg	
108-88-3	Toluene	ND	50	6.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	9.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	8.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	16	ug/kg	
79-01-6	Trichloroethene	ND	50	9.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	31	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	39	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	8.3	ug/kg	
75-01-4	Vinyl chloride	ND	100	10	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	10	ug/kg	
1330-20-7	Xylene (total)	ND	50	10	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-MB2	D242715.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC26348-1AMS, JC26348-1AMSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	100%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	102%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2440	98	30-150
71-43-2	Benzene	2500	2490	100	77-122
108-86-1	Bromobenzene	2500	2410	96	80-122
74-97-5	Bromochloromethane	2500	2650	106	81-126
75-27-4	Bromodichloromethane	2500	2470	99	82-130
75-25-2	Bromoform	2500	2540	102	78-134
74-83-9	Bromomethane	2500	2160	86	56-141
78-93-3	2-Butanone (MEK)	2500	2630	105	61-139
104-51-8	n-Butylbenzene	2500	2350	94	69-127
135-98-8	sec-Butylbenzene	2500	2360	94	70-125
98-06-6	tert-Butylbenzene	2500	2480	99	70-126
56-23-5	Carbon tetrachloride	2500	2410	96	73-139
108-90-7	Chlorobenzene	2500	2490	100	79-120
75-00-3	Chloroethane	2500	2170	87	64-150
67-66-3	Chloroform	2500	2550	102	77-123
74-87-3	Chloromethane	2500	2160	86	50-140
95-49-8	o-Chlorotoluene	2500	2390	96	74-123
106-43-4	p-Chlorotoluene	2500	2390	96	73-121
108-20-3	Di-Isopropyl ether	2500	2730	109	71-130
96-12-8	1,2-Dibromo-3-chloropropane	2500	2460	98	70-128
124-48-1	Dibromochloromethane	2500	2640	106	82-129
106-93-4	1,2-Dibromoethane	2500	2540	102	83-125
95-50-1	1,2-Dichlorobenzene	2500	2380	95	79-118
541-73-1	1,3-Dichlorobenzene	2500	2300	92	76-119
106-46-7	1,4-Dichlorobenzene	2500	2370	95	75-118
75-71-8	Dichlorodifluoromethane	2500	1940	78	31-170
75-34-3	1,1-Dichloroethane	2500	2560	102	78-129
107-06-2	1,2-Dichloroethane	2500	2590	104	77-140
75-35-4	1,1-Dichloroethene	2500	2720	109	71-128
156-59-2	cis-1,2-Dichloroethene	2500	2450	98	73-123
156-60-5	trans-1,2-Dichloroethene	2500	2530	101	72-122
78-87-5	1,2-Dichloropropane	2500	2570	103	80-129
142-28-9	1,3-Dichloropropane	2500	2570	103	81-124
594-20-7	2,2-Dichloropropane	2500	2530	101	62-134
563-58-6	1,1-Dichloropropene	2500	2600	104	72-125
10061-01-5	cis-1,3-Dichloropropene	2500	2620	105	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	2500	2620	105	75-129
100-41-4	Ethylbenzene	2500	2490	100	75-121
87-68-3	Hexachlorobutadiene	2500	1930	77	64-134
98-82-8	Isopropylbenzene	2500	2520	101	70-126
99-87-6	p-Isopropyltoluene	2500	2410	96	70-127
1634-04-4	Methyl Tert Butyl Ether	5000	4990	100	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2820	113	73-141
74-95-3	Methylene bromide	2500	2570	103	83-129
75-09-2	Methylene chloride	2500	2540	102	71-124
91-20-3	Naphthalene	2500	2260	90	74-126
103-65-1	n-Propylbenzene	2500	2480	99	71-132
100-42-5	Styrene	2500	2610	104	79-125
75-65-0	Tert Butyl Alcohol	12500	12500	100	78-126
994-05-8	tert-Amyl Methyl Ether	2500	2430	97	76-124
637-92-3	tert-Butyl Ethyl Ether	2500	2680	107	74-128
630-20-6	1,1,1,2-Tetrachloroethane	2500	2500	100	81-124
79-34-5	1,1,2,2-Tetrachloroethane	2500	2470	99	72-121
127-18-4	Tetrachloroethene	2500	2500	100	70-135
108-88-3	Toluene	2500	2560	102	75-123
87-61-6	1,2,3-Trichlorobenzene	2500	1980	79	76-128
120-82-1	1,2,4-Trichlorobenzene	2500	2340	94	74-129
71-55-6	1,1,1-Trichloroethane	2500	2640	106	75-134
79-00-5	1,1,2-Trichloroethane	2500	2680	107	78-130
79-01-6	Trichloroethene	2500	2520	101	79-127
75-69-4	Trichlorofluoromethane	2500	2160	86	64-141
96-18-4	1,2,3-Trichloropropane	2500	2460	98	77-124
95-63-6	1,2,4-Trimethylbenzene	2500	2520	101	75-126
108-67-8	1,3,5-Trimethylbenzene	2500	2470	99	72-124
75-01-4	Vinyl chloride	2500	2260	90	57-136
	m,p-Xylene	5000	5030	101	75-122
95-47-6	o-Xylene	2500	2560	102	76-121
1330-20-7	Xylene (total)	7500	7580	101	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD9865-BS	D242682.D	1	08/24/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	101%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	41.4	83	30-150
71-43-2	Benzene	50	57.4	115	77-122
108-86-1	Bromobenzene	50	55.5	111	80-122
74-97-5	Bromochloromethane	50	54.8	110	81-126
75-27-4	Bromodichloromethane	50	55.8	112	82-130
75-25-2	Bromoform	50	54.9	110	78-134
74-83-9	Bromomethane	50	56.3	113	56-141
78-93-3	2-Butanone (MEK)	50	55.2	110	61-139
104-51-8	n-Butylbenzene	50	58.1	116	69-127
135-98-8	sec-Butylbenzene	50	62.2	124	70-125
98-06-6	tert-Butylbenzene	50	63.2	126	70-126
56-23-5	Carbon tetrachloride	50	63.1	126	73-139
108-90-7	Chlorobenzene	50	54.6	109	79-120
75-00-3	Chloroethane	50	57.7	115	64-150
67-66-3	Chloroform	50	55.1	110	77-123
74-87-3	Chloromethane	50	54.2	108	50-140
95-49-8	o-Chlorotoluene	50	57.5	115	74-123
106-43-4	p-Chlorotoluene	50	53.5	107	73-121
108-20-3	Di-Isopropyl ether	50	54.4	109	71-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.9	104	70-128
124-48-1	Dibromochloromethane	50	56.0	112	82-129
106-93-4	1,2-Dibromoethane	50	48.8	98	83-125
95-50-1	1,2-Dichlorobenzene	50	53.5	107	79-118
541-73-1	1,3-Dichlorobenzene	50	52.1	104	76-119
106-46-7	1,4-Dichlorobenzene	50	52.7	105	75-118
75-71-8	Dichlorodifluoromethane	50	44.4	89	31-170
75-34-3	1,1-Dichloroethane	50	56.4	113	78-129
107-06-2	1,2-Dichloroethane	50	57.6	115	77-140
75-35-4	1,1-Dichloroethene	50	57.7	115	71-128
156-59-2	cis-1,2-Dichloroethene	50	52.7	105	73-123
156-60-5	trans-1,2-Dichloroethene	50	55.9	112	72-122
78-87-5	1,2-Dichloropropane	50	54.7	109	80-129
142-28-9	1,3-Dichloropropane	50	52.4	105	81-124
594-20-7	2,2-Dichloropropane	50	58.7	117	62-134
563-58-6	1,1-Dichloropropene	50	59.5	119	72-125
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.1	106	75-129
100-41-4	Ethylbenzene	50	52.6	105	75-121
87-68-3	Hexachlorobutadiene	50	54.7	109	64-134
98-82-8	Isopropylbenzene	50	62.5	125	70-126
99-87-6	p-Isopropyltoluene	50	61.6	123	70-127
1634-04-4	Methyl Tert Butyl Ether	100	107	107	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.5	107	73-141
74-95-3	Methylene bromide	50	56.4	113	83-129
75-09-2	Methylene chloride	50	53.9	108	71-124
91-20-3	Naphthalene	50	49.0	98	74-126
103-65-1	n-Propylbenzene	50	59.3	119	71-132
100-42-5	Styrene	50	51.4	103	79-125
75-65-0	Tert Butyl Alcohol	250	257	103	78-126
994-05-8	tert-Amyl Methyl Ether	50	53.2	106	76-124
637-92-3	tert-Butyl Ethyl Ether	50	53.0	106	74-128
630-20-6	1,1,1,2-Tetrachloroethane	50	58.1	116	81-124
79-34-5	1,1,2,2-Tetrachloroethane	50	54.9	110	72-121
127-18-4	Tetrachloroethene	50	54.5	109	70-135
108-88-3	Toluene	50	55.4	111	75-123
87-61-6	1,2,3-Trichlorobenzene	50	53.1	106	76-128
120-82-1	1,2,4-Trichlorobenzene	50	55.5	111	74-129
71-55-6	1,1,1-Trichloroethane	50	65.6	131	75-134
79-00-5	1,1,2-Trichloroethane	50	53.3	107	78-130
79-01-6	Trichloroethene	50	61.2	122	79-127
75-69-4	Trichlorofluoromethane	50	54.0	108	64-141
96-18-4	1,2,3-Trichloropropane	50	52.8	106	77-124
95-63-6	1,2,4-Trimethylbenzene	50	56.1	112	75-126
108-67-8	1,3,5-Trimethylbenzene	50	58.5	117	72-124
75-01-4	Vinyl chloride	50	53.0	106	57-136
	m,p-Xylene	100	107	107	75-122
95-47-6	o-Xylene	50	55.8	112	76-121
1330-20-7	Xylene (total)	150	162	108	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7110-BS	X165991.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	97%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	103%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2260	90	30-150
71-43-2	Benzene	2500	2520	101	77-122
108-86-1	Bromobenzene	2500	2630	105	80-122
74-97-5	Bromochloromethane	2500	2640	106	81-126
75-27-4	Bromodichloromethane	2500	2740	110	82-130
75-25-2	Bromoform	2500	2690	108	78-134
74-83-9	Bromomethane	2500	2330	93	56-141
78-93-3	2-Butanone (MEK)	2500	2720	109	61-139
104-51-8	n-Butylbenzene	2500	2670	107	69-127
135-98-8	sec-Butylbenzene	2500	2680	107	70-125
98-06-6	tert-Butylbenzene	2500	2670	107	70-126
56-23-5	Carbon tetrachloride	2500	3120	125	73-139
108-90-7	Chlorobenzene	2500	2570	103	79-120
75-00-3	Chloroethane	2500	2140	86	64-150
67-66-3	Chloroform	2500	2860	114	77-123
74-87-3	Chloromethane	2500	2230	89	50-140
95-49-8	o-Chlorotoluene	2500	2600	104	74-123
106-43-4	p-Chlorotoluene	2500	2570	103	73-121
108-20-3	Di-Isopropyl ether	2500	2520	101	71-130
96-12-8	1,2-Dibromo-3-chloropropane	2500	2520	101	70-128
124-48-1	Dibromochloromethane	2500	2860	114	82-129
106-93-4	1,2-Dibromoethane	2500	2620	105	83-125
95-50-1	1,2-Dichlorobenzene	2500	2560	102	79-118
541-73-1	1,3-Dichlorobenzene	2500	2500	100	76-119
106-46-7	1,4-Dichlorobenzene	2500	2510	100	75-118
75-71-8	Dichlorodifluoromethane	2500	2310	92	31-170
75-34-3	1,1-Dichloroethane	2500	2690	108	78-129
107-06-2	1,2-Dichloroethane	2500	3160	126	77-140
75-35-4	1,1-Dichloroethene	2500	2870	115	71-128
156-59-2	cis-1,2-Dichloroethene	2500	2480	99	73-123
156-60-5	trans-1,2-Dichloroethene	2500	2610	104	72-122
78-87-5	1,2-Dichloropropane	2500	2580	103	80-129
142-28-9	1,3-Dichloropropane	2500	2550	102	81-124
594-20-7	2,2-Dichloropropane	2500	3180	127	62-134
563-58-6	1,1-Dichloropropene	2500	2850	114	72-125
10061-01-5	cis-1,3-Dichloropropene	2500	2700	108	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	2500	2750	110	75-129
100-41-4	Ethylbenzene	2500	2530	101	75-121
87-68-3	Hexachlorobutadiene	2500	2820	113	64-134
98-82-8	Isopropylbenzene	2500	2760	110	70-126
99-87-6	p-Isopropyltoluene	2500	2810	112	70-127
1634-04-4	Methyl Tert Butyl Ether	5000	4960	99	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2800	112	73-141
74-95-3	Methylene bromide	2500	2890	116	83-129
75-09-2	Methylene chloride	2500	2430	97	71-124
91-20-3	Naphthalene	2500	2390	96	74-126
103-65-1	n-Propylbenzene	2500	2730	109	71-132
100-42-5	Styrene	2500	2420	97	79-125
75-65-0	Tert Butyl Alcohol	12500	13100	105	78-126
994-05-8	tert-Amyl Methyl Ether	2500	2650	106	76-124
637-92-3	tert-Butyl Ethyl Ether	2500	2590	104	74-128
630-20-6	1,1,1,2-Tetrachloroethane	2500	2860	114	81-124
79-34-5	1,1,2,2-Tetrachloroethane	2500	2420	97	72-121
127-18-4	Tetrachloroethene	2500	2860	114	70-135
108-88-3	Toluene	2500	2480	99	75-123
87-61-6	1,2,3-Trichlorobenzene	2500	2490	100	76-128
120-82-1	1,2,4-Trichlorobenzene	2500	2570	103	74-129
71-55-6	1,1,1-Trichloroethane	2500	3080	123	75-134
79-00-5	1,1,2-Trichloroethane	2500	2420	97	78-130
79-01-6	Trichloroethene	2500	2650	106	79-127
75-69-4	Trichlorofluoromethane	2500	2660	106	64-141
96-18-4	1,2,3-Trichloropropane	2500	2710	108	77-124
95-63-6	1,2,4-Trimethylbenzene	2500	2670	107	75-126
108-67-8	1,3,5-Trimethylbenzene	2500	2680	107	72-124
75-01-4	Vinyl chloride	2500	2280	91	57-136
	m,p-Xylene	5000	5150	103	75-122
95-47-6	o-Xylene	2500	2590	104	76-121
1330-20-7	Xylene (total)	7500	7730	103	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE10309-BS	E237746.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	70-122%
17060-07-0	1,2-Dichloroethane-D4	122%	68-124%
2037-26-5	Toluene-D8	100%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	42.6	85	30-150
71-43-2	Benzene	50	54.7	109	77-122
108-86-1	Bromobenzene	50	53.6	107	80-122
74-97-5	Bromochloromethane	50	53.6	107	81-126
75-27-4	Bromodichloromethane	50	54.0	108	82-130
75-25-2	Bromoform	50	53.4	107	78-134
74-83-9	Bromomethane	50	53.1	106	56-141
78-93-3	2-Butanone (MEK)	50	47.0	94	61-139
104-51-8	n-Butylbenzene	50	55.1	110	69-127
135-98-8	sec-Butylbenzene	50	58.0	116	70-125
98-06-6	tert-Butylbenzene	50	60.2	120	70-126
56-23-5	Carbon tetrachloride	50	60.1	120	73-139
108-90-7	Chlorobenzene	50	52.4	105	79-120
75-00-3	Chloroethane	50	56.0	112	64-150
67-66-3	Chloroform	50	53.6	107	77-123
74-87-3	Chloromethane	50	49.9	100	50-140
95-49-8	o-Chlorotoluene	50	54.2	108	74-123
106-43-4	p-Chlorotoluene	50	50.9	102	73-121
108-20-3	Di-Isopropyl ether	50	49.3	99	71-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.3	103	70-128
124-48-1	Dibromochloromethane	50	54.2	108	82-129
106-93-4	1,2-Dibromoethane	50	47.9	96	83-125
95-50-1	1,2-Dichlorobenzene	50	52.4	105	79-118
541-73-1	1,3-Dichlorobenzene	50	50.4	101	76-119
106-46-7	1,4-Dichlorobenzene	50	51.6	103	75-118
75-71-8	Dichlorodifluoromethane	50	41.0	82	31-170
75-34-3	1,1-Dichloroethane	50	54.8	110	78-129
107-06-2	1,2-Dichloroethane	50	57.9	116	77-140
75-35-4	1,1-Dichloroethene	50	59.4	119	71-128
156-59-2	cis-1,2-Dichloroethene	50	51.1	102	73-123
156-60-5	trans-1,2-Dichloroethene	50	55.2	110	72-122
78-87-5	1,2-Dichloropropane	50	54.6	109	80-129
142-28-9	1,3-Dichloropropane	50	50.7	101	81-124
594-20-7	2,2-Dichloropropane	50	56.3	113	62-134
563-58-6	1,1-Dichloropropene	50	58.4	117	72-125
10061-01-5	cis-1,3-Dichloropropene	50	53.7	107	75-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	51.0	102	75-129
100-41-4	Ethylbenzene	50	50.3	101	75-121
87-68-3	Hexachlorobutadiene	50	54.3	109	64-134
98-82-8	Isopropylbenzene	50	58.1	116	70-126
99-87-6	p-Isopropyltoluene	50	57.8	116	70-127
1634-04-4	Methyl Tert Butyl Ether	100	103	103	77-121
108-10-1	4-Methyl-2-pentanone(MIBK)	50	49.0	98	73-141
74-95-3	Methylene bromide	50	56.5	113	83-129
75-09-2	Methylene chloride	50	55.0	110	71-124
91-20-3	Naphthalene	50	48.8	98	74-126
103-65-1	n-Propylbenzene	50	55.5	111	71-132
100-42-5	Styrene	50	49.2	98	79-125
75-65-0	Tert Butyl Alcohol	250	237	95	78-126
994-05-8	tert-Amyl Methyl Ether	50	48.9	98	76-124
637-92-3	tert-Butyl Ethyl Ether	50	48.6	97	74-128
630-20-6	1,1,1,2-Tetrachloroethane	50	55.7	111	81-124
79-34-5	1,1,2,2-Tetrachloroethane	50	52.0	104	72-121
127-18-4	Tetrachloroethene	50	52.9	106	70-135
108-88-3	Toluene	50	52.5	105	75-123
87-61-6	1,2,3-Trichlorobenzene	50	52.7	105	76-128
120-82-1	1,2,4-Trichlorobenzene	50	53.9	108	74-129
71-55-6	1,1,1-Trichloroethane	50	63.0	126	75-134
79-00-5	1,1,2-Trichloroethane	50	50.8	102	78-130
79-01-6	Trichloroethene	50	60.3	121	79-127
75-69-4	Trichlorofluoromethane	50	51.9	104	64-141
96-18-4	1,2,3-Trichloropropane	50	52.2	104	77-124
95-63-6	1,2,4-Trimethylbenzene	50	52.4	105	75-126
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	72-124
75-01-4	Vinyl chloride	50	49.9	100	57-136
	m,p-Xylene	100	102	102	75-122
95-47-6	o-Xylene	50	52.1	104	76-121
1330-20-7	Xylene (total)	150	154	103	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7111-BS	X166024.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	99%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	102%	72-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		63	36.3	58	10-180
71-43-2	Benzene	ND		63	63.0	100	48-136
108-86-1	Bromobenzene	ND		63	63.0	100	37-145
74-97-5	Bromochloromethane	ND		63	56.9	90	53-137
75-27-4	Bromodichloromethane	ND		63	59.4	94	50-145
75-25-2	Bromoform	ND		63	54.7	87	39-148
74-83-9	Bromomethane	ND		63	60.9	97	12-156
78-93-3	2-Butanone (MEK)	ND		63	40.5	64	26-164
104-51-8	n-Butylbenzene	ND		63	63.3	100	10-156
135-98-8	sec-Butylbenzene	ND		63	68.8	109	23-151
98-06-6	tert-Butylbenzene	ND		63	72.1	114	30-149
56-23-5	Carbon tetrachloride	ND		63	64.8	103	43-152
108-90-7	Chlorobenzene	ND		63	63.5	101	38-144
75-00-3	Chloroethane	ND		63	61.9	98	26-154
67-66-3	Chloroform	ND		63	62.0	98	52-134
74-87-3	Chloromethane	ND		63	55.9	89	41-142
95-49-8	o-Chlorotoluene	ND		63	66.7	106	34-147
106-43-4	p-Chlorotoluene	ND		63	61.2	97	34-143
108-20-3	Di-Isopropyl ether	ND		63	60.2	96	54-135
96-12-8	1,2-Dibromo-3-chloropropane	ND		63	48.1	76	29-145
124-48-1	Dibromochloromethane	ND		63	60.3	96	49-142
106-93-4	1,2-Dibromoethane	ND		63	51.0	81	46-139
95-50-1	1,2-Dichlorobenzene	ND		63	60.0	95	30-144
541-73-1	1,3-Dichlorobenzene	ND		63	60.1	95	28-148
106-46-7	1,4-Dichlorobenzene	ND		63	60.5	96	30-142
75-71-8	Dichlorodifluoromethane	ND		63	44.6	71	31-161
75-34-3	1,1-Dichloroethane	ND		63	63.0	100	54-137
107-06-2	1,2-Dichloroethane	ND		63	59.5	94	56-140
75-35-4	1,1-Dichloroethene	ND		63	63.1	100	41-143
156-59-2	cis-1,2-Dichloroethene	ND		63	58.6	93	45-137
156-60-5	trans-1,2-Dichloroethene	ND		63	62.6	99	42-141
78-87-5	1,2-Dichloropropane	ND		63	62.2	99	53-139
142-28-9	1,3-Dichloropropane	ND		63	55.2	88	51-134
594-20-7	2,2-Dichloropropane	ND		63	58.0	92	26-151
563-58-6	1,1-Dichloropropene	ND		63	63.4	101	42-144
10061-01-5	cis-1,3-Dichloropropene	ND		63	59.3	94	41-144

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		63	53.6	85	36-148
100-41-4	Ethylbenzene	ND		63	60.9	97	34-145
87-68-3	Hexachlorobutadiene	ND		63	60.1	95	10-163
98-82-8	Isopropylbenzene	ND		63	70.0	111	36-145
99-87-6	p-Isopropyltoluene	ND		63	68.7	109	21-153
1634-04-4	Methyl Tert Butyl Ether	ND		126	111	88	54-129
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		63	47.4	75	33-154
74-95-3	Methylene bromide	ND		63	58.4	93	49-139
75-09-2	Methylene chloride	0.65	J	63	60.6	95	47-133
91-20-3	Naphthalene	ND		63	47.8	76	12-160
103-65-1	n-Propylbenzene	ND		63	66.3	105	26-148
100-42-5	Styrene	ND		63	58.9	93	32-156
75-65-0	Tert Butyl Alcohol	ND		315	359	114	57-148
994-05-8	tert-Amyl Methyl Ether	ND		63	56.0	89	56-129
637-92-3	tert-Butyl Ethyl Ether	ND		63	57.5	91	58-132
630-20-6	1,1,1,2-Tetrachloroethane	ND		63	65.3	104	47-144
79-34-5	1,1,2,2-Tetrachloroethane	ND		63	54.2	86	31-149
127-18-4	Tetrachloroethene	ND		63	61.8	98	34-163
108-88-3	Toluene	ND		63	60.9	97	40-141
87-61-6	1,2,3-Trichlorobenzene	ND		63	56.1	89	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		63	60.2	96	14-156
71-55-6	1,1,1-Trichloroethane	ND		63	69.5	110	48-144
79-00-5	1,1,2-Trichloroethane	ND		63	54.2	86	43-146
79-01-6	Trichloroethene	ND		63	67.0	106	42-152
75-69-4	Trichlorofluoromethane	ND		63	53.6	85	39-153
96-18-4	1,2,3-Trichloropropane	ND		63	52.3	83	36-153
95-63-6	1,2,4-Trimethylbenzene	ND		63	64.1	102	23-152
108-67-8	1,3,5-Trimethylbenzene	ND		63	66.3	105	26-150
75-01-4	Vinyl chloride	ND		63	54.1	86	38-149
	m,p-Xylene	ND		126	124	98	32-148
95-47-6	o-Xylene	ND		63	64.1	102	36-145
1330-20-7	Xylene (total)	ND		189	188	99	34-146

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-2MS	X165998.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-2	X165994.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	MS	JC25831-2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	70-122%
17060-07-0	1,2-Dichloroethane-D4	85%	100%	68-124%
2037-26-5	Toluene-D8	100%	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	97%	72-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		54.9	38.0	69	10-180
71-43-2	Benzene	ND		54.9	59.6	109	48-136
108-86-1	Bromobenzene	ND		54.9	56.3	103	37-145
74-97-5	Bromochloromethane	ND		54.9	55.0	100	53-137
75-27-4	Bromodichloromethane	ND		54.9	54.9	100	50-145
75-25-2	Bromoform	ND		54.9	50.7	92	39-148
74-83-9	Bromomethane	ND		54.9	57.5	105	12-156
78-93-3	2-Butanone (MEK)	ND		54.9	49.8	91	26-164
104-51-8	n-Butylbenzene	0.34	J	54.9	63.6	115	10-156
135-98-8	sec-Butylbenzene	1.1	J	54.9	67.0	120	23-151
98-06-6	tert-Butylbenzene	ND		54.9	69.1	126	30-149
56-23-5	Carbon tetrachloride	ND		54.9	59.5	108	43-152
108-90-7	Chlorobenzene	ND		54.9	56.5	103	38-144
75-00-3	Chloroethane	ND		54.9	59.6	109	26-154
67-66-3	Chloroform	ND		54.9	57.3	104	52-134
74-87-3	Chloromethane	ND		54.9	49.2	90	41-142
95-49-8	o-Chlorotoluene	ND		54.9	60.0	109	34-147
106-43-4	p-Chlorotoluene	ND		54.9	56.3	103	34-143
108-20-3	Di-Isopropyl ether	ND		54.9	55.8	102	54-135
96-12-8	1,2-Dibromo-3-chloropropane	ND		54.9	48.9	89	29-145
124-48-1	Dibromochloromethane	ND		54.9	53.3	97	49-142
106-93-4	1,2-Dibromoethane	ND		54.9	45.1	82	46-139
95-50-1	1,2-Dichlorobenzene	ND		54.9	56.4	103	30-144
541-73-1	1,3-Dichlorobenzene	ND		54.9	54.6	99	28-148
106-46-7	1,4-Dichlorobenzene	ND		54.9	54.3	99	30-142
75-71-8	Dichlorodifluoromethane	ND		54.9	36.4	66	31-161
75-34-3	1,1-Dichloroethane	ND		54.9	60.4	110	54-137
107-06-2	1,2-Dichloroethane	ND		54.9	54.6	99	56-140
75-35-4	1,1-Dichloroethene	ND		54.9	60.3	110	41-143
156-59-2	cis-1,2-Dichloroethene	ND		54.9	54.9	100	45-137
156-60-5	trans-1,2-Dichloroethene	ND		54.9	59.8	109	42-141
78-87-5	1,2-Dichloropropane	ND		54.9	56.4	103	53-139
142-28-9	1,3-Dichloropropane	ND		54.9	49.8	91	51-134
594-20-7	2,2-Dichloropropane	ND		54.9	55.1	100	26-151
563-58-6	1,1-Dichloropropene	ND		54.9	58.4	106	42-144
10061-01-5	cis-1,3-Dichloropropene	ND		54.9	55.2	101	41-144

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		54.9	50.0	91	36-148
100-41-4	Ethylbenzene	0.61	J	54.9	56.0	101	34-145
87-68-3	Hexachlorobutadiene	ND		54.9	60.1	110	10-163
98-82-8	Isopropylbenzene	0.30	J	54.9	65.8	119	36-145
99-87-6	p-Isopropyltoluene	1.5	J	54.9	69.0	123	21-153
1634-04-4	Methyl Tert Butyl Ether	ND		110	105	96	54-129
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		54.9	47.1	86	33-154
74-95-3	Methylene bromide	ND		54.9	53.2	97	49-139
75-09-2	Methylene chloride	1.1	J	54.9	57.8	103	47-133
91-20-3	Naphthalene	23.5		54.9	48.3	45	12-160
103-65-1	n-Propylbenzene	0.58	J	54.9	62.3	112	26-148
100-42-5	Styrene	ND		54.9	53.2	97	32-156
75-65-0	Tert Butyl Alcohol	ND		274	287	105	57-148
994-05-8	tert-Amyl Methyl Ether	ND		54.9	51.5	94	56-129
637-92-3	tert-Butyl Ethyl Ether	ND		54.9	52.8	96	58-132
630-20-6	1,1,1,2-Tetrachloroethane	ND		54.9	60.7	111	47-144
79-34-5	1,1,2,2-Tetrachloroethane	ND		54.9	51.1	93	31-149
127-18-4	Tetrachloroethene	ND		54.9	54.8	100	34-163
108-88-3	Toluene	0.47	J	54.9	56.6	102	40-141
87-61-6	1,2,3-Trichlorobenzene	2.0	J	54.9	52.9	93	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		54.9	60.9	111	14-156
71-55-6	1,1,1-Trichloroethane	ND		54.9	65.8	120	48-144
79-00-5	1,1,2-Trichloroethane	ND		54.9	50.1	91	43-146
79-01-6	Trichloroethene	ND		54.9	62.6	114	42-152
75-69-4	Trichlorofluoromethane	ND		54.9	47.0	86	39-153
96-18-4	1,2,3-Trichloropropane	ND		54.9	47.8	87	36-153
95-63-6	1,2,4-Trimethylbenzene	91.8		54.9	62.6	-53* [a]	23-152
108-67-8	1,3,5-Trimethylbenzene	70.3		54.9	64.2	-11* [a]	26-150
75-01-4	Vinyl chloride	ND		54.9	50.0	91	38-149
	m,p-Xylene	6.6		110	113	97	32-148
95-47-6	o-Xylene	20.6		54.9	59.9	72	36-145
1330-20-7	Xylene (total)	27.2		165	173	89	34-146

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-9MS	X166032.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-9	X166029.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	MS	JC25831-9	Limits
1868-53-7	Dibromofluoromethane	99%	104%	70-122%
17060-07-0	1,2-Dichloroethane-D4	87%	107%	68-124%
2037-26-5	Toluene-D8	100%	104%	77-125%
460-00-4	4-Bromofluorobenzene	101%	88%	72-130%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	JC26348-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2590	2080	80	2590	1910	74	9	10-180/33
71-43-2	Benzene	ND		2590	2390	92	2590	2350	91	2	48-136/30
108-86-1	Bromobenzene	ND		2590	2340	90	2590	2320	90	1	37-145/28
74-97-5	Bromochloromethane	ND		2590	2550	99	2590	2500	97	2	53-137/26
75-27-4	Bromodichloromethane	ND		2590	2400	93	2590	2360	91	2	50-145/28
75-25-2	Bromoform	ND		2590	2510	97	2590	2470	96	2	39-148/24
74-83-9	Bromomethane	ND		2590	1210	47	2590	1190	46	2	12-156/32
78-93-3	2-Butanone (MEK)	ND		2590	2470	96	2590	2390	92	3	26-164/30
104-51-8	n-Butylbenzene	ND		2590	2160	84	2590	2180	84	1	10-156/37
135-98-8	sec-Butylbenzene	ND		2590	2160	84	2590	2170	84	0	23-151/34
98-06-6	tert-Butylbenzene	ND		2590	2290	89	2590	2300	89	0	30-149/34
56-23-5	Carbon tetrachloride	ND		2590	2200	85	2590	2170	84	1	43-152/31
108-90-7	Chlorobenzene	ND		2590	2460	95	2590	2400	93	2	38-144/29
75-00-3	Chloroethane	ND		2590	1020	39	2590	1010	39	1	26-154/34
67-66-3	Chloroform	ND		2590	2480	96	2590	2460	95	1	52-134/27
74-87-3	Chloromethane	ND		2590	2260	87	2590	2280	88	1	41-142/28
95-49-8	o-Chlorotoluene	ND		2590	2270	88	2590	2260	87	0	34-147/29
106-43-4	p-Chlorotoluene	ND		2590	2310	89	2590	2290	89	1	34-143/32
108-20-3	Di-Isopropyl ether	ND		2590	2670	103	2590	2660	103	0	54-135/25
96-12-8	1,2-Dibromo-3-chloropropane	ND		2590	2410	93	2590	2420	94	0	29-145/26
124-48-1	Dibromochloromethane	ND		2590	2560	99	2590	2500	97	2	49-142/24
106-93-4	1,2-Dibromoethane	ND		2590	2500	97	2590	2460	95	2	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		2590	2290	89	2590	2290	89	0	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		2590	2220	86	2590	2210	85	0	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		2590	2270	88	2590	2260	87	0	30-142/31
75-71-8	Dichlorodifluoromethane	ND		2590	1490	58	2590	1420	55	5	31-161/28
75-34-3	1,1-Dichloroethane	ND		2590	2480	96	2590	2460	95	1	54-137/28
107-06-2	1,2-Dichloroethane	ND		2590	2520	97	2590	2480	96	2	56-140/24
75-35-4	1,1-Dichloroethene	ND		2590	2570	99	2590	2540	98	1	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		2590	2360	91	2590	2360	91	0	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		2590	2450	95	2590	2440	94	0	42-141/30
78-87-5	1,2-Dichloropropane	ND		2590	2540	98	2590	2470	96	3	53-139/27
142-28-9	1,3-Dichloropropane	ND		2590	2560	99	2590	2520	97	2	51-134/24
594-20-7	2,2-Dichloropropane	ND		2590	2370	92	2590	2320	90	2	26-151/29
563-58-6	1,1-Dichloropropene	ND		2590	2420	94	2590	2400	93	1	42-144/32
10061-01-5	cis-1,3-Dichloropropene	ND		2590	2540	98	2590	2480	96	2	41-144/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Compound	JC26348-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		2590	2590	100	2590	2470	96	5	36-148/27
100-41-4	Ethylbenzene	ND		2590	2400	93	2590	2370	92	1	34-145/29
87-68-3	Hexachlorobutadiene	ND		2590	1790	69	2590	1820	70	2	10-163/39
98-82-8	Isopropylbenzene	ND		2590	2350	91	2590	2360	91	0	36-145/33
99-87-6	p-Isopropyltoluene	ND		2590	2230	86	2590	2230	86	0	21-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		5170	4920	95	5170	4890	95	1	54-129/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2590	2950	114	2590	2910	113	1	33-154/29
74-95-3	Methylene bromide	ND		2590	2510	97	2590	2460	95	2	49-139/24
75-09-2	Methylene chloride	ND		2590	2480	96	2590	2460	95	1	47-133/25
91-20-3	Naphthalene	ND		2590	2220	86	2590	2310	89	4	12-160/33
103-65-1	n-Propylbenzene	ND		2590	2330	90	2590	2330	90	0	26-148/33
100-42-5	Styrene	ND		2590	2590	100	2590	2540	98	2	32-156/31
75-65-0	Tert Butyl Alcohol	ND		12900	13100	101	12900	12900	100	2	57-148/25
994-05-8	tert-Amyl Methyl Ether	ND		2590	2410	93	2590	2390	92	1	56-129/23
637-92-3	tert-Butyl Ethyl Ether	ND		2590	2620	101	2590	2590	100	1	58-132/25
630-20-6	1,1,1,2-Tetrachloroethane	ND		2590	2420	94	2590	2400	93	1	47-144/26
79-34-5	1,1,2,2-Tetrachloroethane	ND		2590	2410	93	2590	2380	92	1	31-149/25
127-18-4	Tetrachloroethene	ND		2590	2900	112	2590	3120	121	7	34-163/31
108-88-3	Toluene	ND		2590	2490	96	2590	2380	92	5	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		2590	1940	75	2590	2030	79	5	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		2590	2220	86	2590	2260	87	2	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		2590	2490	96	2590	2470	96	1	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		2590	2640	102	2590	2510	97	5	43-146/27
79-01-6	Trichloroethene	ND		2590	2410	93	2590	2370	92	2	42-152/29
75-69-4	Trichlorofluoromethane	ND		2590	1780	69	2590	1770	68	1	39-153/27
96-18-4	1,2,3-Trichloropropane	ND		2590	2470	96	2590	2470	96	0	36-153/26
95-63-6	1,2,4-Trimethylbenzene	ND		2590	2380	92	2590	2380	92	0	23-152/31
108-67-8	1,3,5-Trimethylbenzene	ND		2590	2310	89	2590	2300	89	0	26-150/32
75-01-4	Vinyl chloride	ND		2590	2000	77	2590	2000	77	0	38-149/29
	m,p-Xylene	ND		5170	4860	94	5170	4780	92	2	32-148/30
95-47-6	o-Xylene	ND		2590	2490	96	2590	2460	95	1	36-145/30
1330-20-7	Xylene (total)	ND		7760	7350	95	7760	7240	93	2	34-146/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC26348-1AMS [a]	D242720.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1AMSD [a]	D242721.D	1	08/25/16	TP	n/a	n/a	VD9865
JC26348-1A [a]	D242719.D	1	08/25/16	TP	n/a	n/a	VD9865

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-5

CAS No.	Surrogate Recoveries	MS	MSD	JC26348-1A	Limits
1868-53-7	Dibromofluoromethane	98%	99%	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	100%	68-124%
2037-26-5	Toluene-D8	101%	100%	99%	77-125%
460-00-4	4-Bromofluorobenzene	101%	103%	102%	72-130%

(a) Sample prepared from intact soil per client's request.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	JC25831-10 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND [a]		7190	6310	88	7190	5800	81	8	10-180/33
71-43-2	Benzene	ND [a]		7190	7510	104	7190	6960	97	8	48-136/30
108-86-1	Bromobenzene	ND [a]		7190	7480	104	7190	7600	106	2	37-145/28
74-97-5	Bromochloromethane	ND [a]		7190	7520	105	7190	7640	106	2	53-137/26
75-27-4	Bromodichloromethane	ND [a]		7190	8070	112	7190	8230	115	2	50-145/28
75-25-2	Bromoform	ND [a]		7190	7400	103	7190	7150	99	3	39-148/24
74-83-9	Bromomethane	ND [a]		7190	7110	99	7190	7280	101	2	12-156/32
78-93-3	2-Butanone (MEK)	ND [a]		7190	6970	97	7190	6770	94	3	26-164/30
104-51-8	n-Butylbenzene	27700 [a]		7190	34400	93	7190	35000	102	2	10-156/37
135-98-8	sec-Butylbenzene	17300 [a]		7190	24200	96	7190	24500	100	1	23-151/34
98-06-6	tert-Butylbenzene	533 [a]		7190	7750	100	7190	7880	102	2	30-149/34
56-23-5	Carbon tetrachloride	ND [a]		7190	9680	135	7190	8990	125	7	43-152/31
108-90-7	Chlorobenzene	ND [a]		7190	7910	110	7190	8000	111	1	38-144/29
75-00-3	Chloroethane	ND [a]		7190	5970	83	7190	6240	87	4	26-154/34
67-66-3	Chloroform	ND [a]		7190	8110	113	7190	8040	112	1	52-134/27
74-87-3	Chloromethane	ND [a]		7190	6000	83	7190	6190	86	3	41-142/28
95-49-8	o-Chlorotoluene	ND [a]		7190	7560	105	7190	7530	105	0	34-147/29
106-43-4	p-Chlorotoluene	ND [a]		7190	7310	102	7190	7320	102	0	34-143/32
108-20-3	Di-Isopropyl ether	ND [a]		7190	7520	105	7190	7520	105	0	54-135/25
96-12-8	1,2-Dibromo-3-chloropropane	ND [a]		7190	5560	77	7190	5470	76	2	29-145/26
124-48-1	Dibromochloromethane	ND [a]		7190	7420	103	7190	7390	103	0	49-142/24
106-93-4	1,2-Dibromoethane	ND [a]		7190	6900	96	7190	6880	96	0	46-139/24
95-50-1	1,2-Dichlorobenzene	ND [a]		7190	6550	91	7190	6620	92	1	30-144/30
541-73-1	1,3-Dichlorobenzene	ND [a]		7190	6930	96	7190	6950	97	0	28-148/31
106-46-7	1,4-Dichlorobenzene	ND [a]		7190	6960	97	7190	7040	98	1	30-142/31
75-71-8	Dichlorodifluoromethane	ND [a]		7190	6360	88	7190	6290	88	1	31-161/28
75-34-3	1,1-Dichloroethane	ND [a]		7190	7870	110	7190	7760	108	1	54-137/28
107-06-2	1,2-Dichloroethane	ND [a]		7190	9070	126	7190	8420	117	7	56-140/24
75-35-4	1,1-Dichloroethene	ND [a]		7190	8660	120	7190	8430	117	3	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND [a]		7190	7300	102	7190	7310	102	0	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND [a]		7190	7840	109	7190	7770	108	1	42-141/30
78-87-5	1,2-Dichloropropane	ND [a]		7190	7420	103	7190	7510	104	1	53-139/27
142-28-9	1,3-Dichloropropane	ND [a]		7190	6510	91	7190	6370	89	2	51-134/24
594-20-7	2,2-Dichloropropane	ND [a]		7190	9540	133	7190	9060	126	5	26-151/29
563-58-6	1,1-Dichloropropene	ND [a]		7190	8290	115	7190	7820	109	6	42-144/32
10061-01-5	cis-1,3-Dichloropropene	ND [a]		7190	7750	108	7190	7920	110	2	41-144/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Compound	JC25831-10 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND [a]		7190	8120	113	7190	8210	114	1	36-148/27
100-41-4	Ethylbenzene	10600 [a]		7190	17700	99	7190	17700	99	0	34-145/29
87-68-3	Hexachlorobutadiene	ND [a]		7190	4810	67	7190	5010	70	4	10-163/39
98-82-8	Isopropylbenzene	7510 [a]		7190	15100	106	7190	15000	104	1	36-145/33
99-87-6	p-Isopropyltoluene	15700 [a]		7190	23000	102	7190	23100	103	0	21-153/33
1634-04-4	Methyl Tert Butyl Ether	ND [a]		14400	14600	102	14400	14300	99	2	54-129/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND [a]		7190	8040	112	7190	7910	110	2	33-154/29
74-95-3	Methylene bromide	ND [a]		7190	8270	115	7190	8310	116	0	49-139/24
75-09-2	Methylene chloride	ND [a]		7190	7620	106	7190	7560	105	1	47-133/25
91-20-3	Naphthalene	16900 [a]		7190	20600	51	7190	20000	43	3	12-160/33
103-65-1	n-Propylbenzene	21400 [a]		7190	30000	120	7190	30000	120	0	26-148/33
100-42-5	Styrene	ND [a]		7190	8210	114	7190	8120	113	1	32-156/31
75-65-0	Tert Butyl Alcohol	ND [a]		35900	29400	82	35900	29300	82	0	57-148/25
994-05-8	tert-Amyl Methyl Ether	ND [a]		7190	8000	111	7190	7980	111	0	56-129/23
637-92-3	tert-Butyl Ethyl Ether	ND [a]		7190	7700	107	7190	7630	106	1	58-132/25
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]		7190	7670	107	7190	7550	105	2	47-144/26
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		7190	8180	114	7190	8140	113	0	31-149/25
127-18-4	Tetrachloroethene	ND [a]		7190	7450	104	7190	7380	103	1	34-163/31
108-88-3	Toluene	1890 [a]		7190	9430	105	7190	9520	106	1	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND [a]		7190	3410	47	7190	3450	48	1	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND [a]		7190	4300	60	7190	4180	58	3	14-156/36
71-55-6	1,1,1-Trichloroethane	ND [a]		7190	8690	121	7190	8670	121	0	48-144/29
79-00-5	1,1,2-Trichloroethane	ND [a]		7190	8700	121	7190	7710	107	12	43-146/27
79-01-6	Trichloroethene	ND [a]		7190	7620	106	7190	7570	105	1	42-152/29
75-69-4	Trichlorofluoromethane	ND [a]		7190	7840	109	7190	8070	112	3	39-153/27
96-18-4	1,2,3-Trichloropropane	ND [a]		7190	11700	163* [b]	7190	11700	163* [b]	0	36-153/26
95-63-6	1,2,4-Trimethylbenzene	151000		7190	149000	-28* [c]	7190	150000	-14* [c]	1	23-152/31
108-67-8	1,3,5-Trimethylbenzene	53100		7190	57900	67	7190	59600	90	3	26-150/32
75-01-4	Vinyl chloride	ND [a]		7190	6290	88	7190	6460	90	3	38-149/29
	m,p-Xylene	50100 [a]		14400	66300	113	14400	65300	106	2	32-148/30
95-47-6	o-Xylene	28800		7190	37400	120	7190	36800	111	2	36-145/30
1330-20-7	Xylene (total)	78900		21600	104000	116	21600	102000	107	2	34-146/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-10MS	E237753.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10MSD	E237754.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237751.D	1	08/25/16	TDN	n/a	n/a	VE10309
JC25831-10	E237752.D	1	08/25/16	TDN	n/a	n/a	VE10309

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-10

CAS No.	Surrogate Recoveries	MS	MSD	JC25831-10	JC25831-10	Limits
1868-53-7	Dibromofluoromethane	111%	111%	112%	110%	70-122%
17060-07-0	1,2-Dichloroethane-D4	119%	115%	119%	115%	68-124%
2037-26-5	Toluene-D8	113%	113%	97%	113%	77-125%
460-00-4	4-Bromofluorobenzene	101%	104%	93%	99%	72-130%

(a) Result is from Run #2.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-3 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	23.6		ND		200* [a]	35
71-43-2	Benzene	ND		ND		nc	17
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Compound	JC25831-3 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	23
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	22
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	37
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	16
100-42-5	Styrene	0.28	J	ND		200* [a]	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-3DUP	X166000.D	1	08/24/16	TP	n/a	n/a	VX7110
JC25831-3	X165995.D	1	08/24/16	TP	n/a	n/a	VX7110

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-6, JC25831-7

CAS No.	Surrogate Recoveries	DUP	JC25831-3	Limits
1868-53-7	Dibromofluoromethane	103%	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	68-124%
2037-26-5	Toluene-D8	99%	99%	77-125%
460-00-4	4-Bromofluorobenzene	97%	96%	72-130%

(a) High RPD possibly due to sample analyzed from different vials.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-11 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	35
71-43-2	Benzene	ND		ND		nc	17
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Compound	JC25831-11 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	23
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	22
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	0.69	J	0.65	J	6	37
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	16
100-42-5	Styrene	ND		ND		nc	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC25831-11DUP	X166034.D	1	08/25/16	TP	n/a	n/a	VX7111
JC25831-11	X166028.D	1	08/25/16	TP	n/a	n/a	VX7111

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC25831-8, JC25831-9, JC25831-11

CAS No.	Surrogate Recoveries	DUP	JC25831-11	Limits
1868-53-7	Dibromofluoromethane	100%	105%	70-122%
17060-07-0	1,2-Dichloroethane-D4	98%	102%	68-124%
2037-26-5	Toluene-D8	98%	99%	77-125%
460-00-4	4-Bromofluorobenzene	98%	96%	72-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9850-BFB
Lab File ID: D242223.D
Instrument ID: GCMSD
Injection Date: 08/06/16
Injection Time: 16:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13508	15.8		Pass
75	30.0 - 60.0% of mass 95	38013	44.6		Pass
95	Base peak, 100% relative abundance	85266	100.0		Pass
96	5.0 - 9.0% of mass 95	5703	6.69		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	81720	95.8		Pass
175	5.0 - 9.0% of mass 174	5883	6.90	(7.20) [a]	Pass
176	95.0 - 101.0% of mass 174	78992	92.6	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5245	6.15	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9850-IC9850	D242224.D	08/06/16	16:58	00:43	Initial cal 0.2
VD9850-IC9850	D242225.D	08/06/16	17:28	01:13	Initial cal 0.5
VD9850-IC9850	D242226.D	08/06/16	17:59	01:44	Initial cal 1
VD9850-IC9850	D242227.D	08/06/16	18:30	02:15	Initial cal 2
VD9850-IC9850	D242228.D	08/06/16	19:00	02:45	Initial cal 5
VD9850-IC9850	D242229.D	08/06/16	19:31	03:16	Initial cal 10
VD9850-IC9850	D242230.D	08/06/16	20:01	03:46	Initial cal 20
VD9850-ICC9850	D242231.D	08/06/16	20:32	04:17	Initial cal 50
VD9850-IC9850	D242232.D	08/06/16	21:03	04:48	Initial cal 100
VD9850-IC9850	D242233.D	08/06/16	21:33	05:18	Initial cal 200
VD9850-ICV9850	D242236.D	08/06/16	23:04	06:49	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9865-BFB
Lab File ID: D242678.D
Instrument ID: GCMSD
Injection Date: 08/24/16
Injection Time: 06:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15723	15.5		Pass
75	30.0 - 60.0% of mass 95	45477	44.8		Pass
95	Base peak, 100% relative abundance	101536	100.0		Pass
96	5.0 - 9.0% of mass 95	7205	7.10		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	97320	95.8		Pass
175	5.0 - 9.0% of mass 174	7210	7.10	(7.41) [a]	Pass
176	95.0 - 101.0% of mass 174	95757	94.3	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6226	6.13	(6.50) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9865-CC9850	D242679.D	08/24/16	07:33	00:37	Continuing cal 20
VD9865-MB	D242681.D	08/24/16	08:35	01:39	Method Blank
ZZZZZZ	D242681A.D	08/24/16	08:35	01:39	(unrelated sample)
VD9865-BS	D242682.D	08/24/16	09:05	02:09	Blank Spike
ZZZZZZ	D242684.D	08/24/16	10:06	03:10	(unrelated sample)
JC25831-5	D242685.D	08/24/16	10:36	03:40	SB-5-S
ZZZZZZ	D242687.D	08/24/16	11:37	04:41	(unrelated sample)
ZZZZZZ	D242688.D	08/24/16	12:08	05:12	(unrelated sample)
ZZZZZZ	D242690.D	08/24/16	13:09	06:13	(unrelated sample)
ZZZZZZ	D242693.D	08/24/16	14:41	07:45	(unrelated sample)
ZZZZZZ	D242694.D	08/24/16	15:11	08:15	(unrelated sample)
ZZZZZZ	D242695.D	08/24/16	15:41	08:45	(unrelated sample)
ZZZZZZ	D242696.D	08/24/16	16:26	09:30	(unrelated sample)
ZZZZZZ	D242697.D	08/24/16	16:57	10:01	(unrelated sample)
ZZZZZZ	D242698.D	08/24/16	17:27	10:31	(unrelated sample)
ZZZZZZ	D242699.D	08/24/16	17:58	11:02	(unrelated sample)
JC25831-5	D242700.D	08/24/16	18:28	11:32	SB-5-S

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VD9865-BFB2 **Injection Date:** 08/25/16
Lab File ID: D242712.D **Injection Time:** 06:36
Instrument ID: GCMSD

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15806	15.9		Pass
75	30.0 - 60.0% of mass 95	44466	44.8		Pass
95	Base peak, 100% relative abundance	99168	100.0		Pass
96	5.0 - 9.0% of mass 95	7098	7.16		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	90381	91.1		Pass
175	5.0 - 9.0% of mass 174	6812	6.87	(7.54) [a]	Pass
176	95.0 - 101.0% of mass 174	88045	88.8	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5916	5.97	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD9865-CC9850	D242713.D	08/25/16	07:19	00:43	Continuing cal 20
ZZZZZZ	D242715A.D	08/25/16	08:23	01:47	(unrelated sample)
VD9865-MB2	D242715.D	08/25/16	08:23	01:47	Method Blank
VD9865-BS2	D242716.D	08/25/16	08:53	02:17	Blank Spike
JC26086-11	D242718.D	08/25/16	09:54	03:18	(used for QC only; not part of job JC25831)
JC26348-1A	D242719.D	08/25/16	10:29	03:53	(used for QC only; not part of job JC25831)
JC26348-1AMS	D242720.D	08/25/16	10:59	04:23	Matrix Spike
JC26348-1AMSD	D242721.D	08/25/16	11:30	04:54	Matrix Spike Duplicate
ZZZZZZ	D242723.D	08/25/16	12:31	05:55	(unrelated sample)
ZZZZZZ	D242724.D	08/25/16	13:01	06:25	(unrelated sample)
ZZZZZZ	D242725.D	08/25/16	13:32	06:56	(unrelated sample)
ZZZZZZ	D242726.D	08/25/16	14:02	07:26	(unrelated sample)
ZZZZZZ	D242727.D	08/25/16	14:33	07:57	(unrelated sample)
ZZZZZZ	D242728.D	08/25/16	15:04	08:28	(unrelated sample)
VD9866-MB	D242729.D	08/25/16	15:45	09:09	Method Blank
VD9866-BS	D242730.D	08/25/16	16:15	09:39	Blank Spike
ZZZZZZ	D242731.D	08/25/16	17:04	10:28	(unrelated sample)
ZZZZZZ	D242733.D	08/25/16	18:05	11:29	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10206-BFB
Lab File ID: E234316.D
Instrument ID: GCMSE
Injection Date: 04/11/16
Injection Time: 20:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8171	18.1		Pass
75	30.0 - 60.0% of mass 95	21194	46.9		Pass
95	Base peak, 100% relative abundance	45186	100.0		Pass
96	5.0 - 9.0% of mass 95	3045	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	41941	92.8		Pass
175	5.0 - 9.0% of mass 174	3226	7.14	(7.69) [a]	Pass
176	95.0 - 101.0% of mass 174	41088	90.9	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	2750	6.09	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10206-IC10206	E234317.D	04/11/16	21:30	00:35	Initial cal 0.2
VE10206-IC10206	E234318.D	04/11/16	22:05	01:10	Initial cal 0.5
VE10206-IC10206	E234319.D	04/11/16	22:39	01:44	Initial cal 1
VE10206-IC10206	E234320.D	04/11/16	23:13	02:18	Initial cal 2
VE10206-IC10206	E234321.D	04/11/16	23:48	02:53	Initial cal 4
VE10206-IC10206	E234322.D	04/12/16	00:22	03:27	Initial cal 8
VE10206-IC10206	E234323.D	04/12/16	00:57	04:02	Initial cal 20
VE10206-ICC10206	E234324.D	04/12/16	01:31	04:36	Initial cal 50
VE10206-IC10206	E234325.D	04/12/16	02:05	05:10	Initial cal 100
VE10206-IC10206	E234326.D	04/12/16	02:40	05:45	Initial cal 200

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10206-BFB2
Lab File ID: E234331.D
Instrument ID: GCMSE
Injection Date: 04/12/16
Injection Time: 08:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7980	17.8		Pass
75	30.0 - 60.0% of mass 95	20882	46.5		Pass
95	Base peak, 100% relative abundance	44882	100.0		Pass
96	5.0 - 9.0% of mass 95	2884	6.43		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	43069	96.0		Pass
175	5.0 - 9.0% of mass 174	3341	7.44	(7.76) [a]	Pass
176	95.0 - 101.0% of mass 174	41770	93.1	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	2658	5.92	(6.36) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10206-ICV10206	E234332.D	04/12/16	08:59	00:35	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VE10309-BFB
Lab File ID: E237742.D
Instrument ID: GCMSE
Injection Date: 08/25/16
Injection Time: 06:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12056	20.7		Pass
75	30.0 - 60.0% of mass 95	30253	52.0		Pass
95	Base peak, 100% relative abundance	58202	100.0		Pass
96	5.0 - 9.0% of mass 95	3982	6.84		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	53282	91.5		Pass
175	5.0 - 9.0% of mass 174	4334	7.45	(8.13) [a]	Pass
176	95.0 - 101.0% of mass 174	52482	90.2	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3527	6.06	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VE10309-CC10206	E237743.D	08/25/16	07:15	00:39	Continuing cal 20
VE10309-MB1	E237745.D	08/25/16	08:24	01:48	Method Blank
ZZZZZZ	E237745B.D	08/25/16	08:24	01:48	(unrelated sample)
VE10309-BS	E237746.D	08/25/16	08:59	02:23	Blank Spike
ZZZZZZ	E237748.D	08/25/16	10:07	03:31	(unrelated sample)
ZZZZZZ	E237750.D	08/25/16	11:15	04:39	(unrelated sample)
JC25831-10	E237751.D	08/25/16	11:49	05:13	SB-9-S
JC25831-10	E237752.D	08/25/16	12:24	05:48	SB-9-S
JC25831-10MS	E237753.D	08/25/16	12:58	06:22	Matrix Spike
JC25831-10MSD	E237754.D	08/25/16	13:32	06:56	Matrix Spike Duplicate
ZZZZZZ	E237757.D	08/25/16	15:16	08:40	(unrelated sample)
ZZZZZZ	E237760.D	08/25/16	17:27	10:51	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7097-BFB
Lab File ID: X165539.D
Instrument ID: GCMSX
Injection Date: 08/06/16
Injection Time: 15:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10528	17.9		Pass
75	30.0 - 60.0% of mass 95	26570	45.1		Pass
95	Base peak, 100% relative abundance	58880	100.0		Pass
96	5.0 - 9.0% of mass 95	3792	6.44		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	58714	99.7		Pass
175	5.0 - 9.0% of mass 174	4640	7.88	(7.90) [a]	Pass
176	95.0 - 101.0% of mass 174	57389	97.5	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4017	6.82	(7.00) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7097-IC7097	X165540.D	08/06/16	16:14	00:40	Initial cal 0.2
VX7097-IC7097	X165541.D	08/06/16	16:44	01:10	Initial cal 0.5
VX7097-IC7097	X165542.D	08/06/16	17:15	01:41	Initial cal 1
VX7097-IC7097	X165543.D	08/06/16	17:45	02:11	Initial cal 2
VX7097-IC7097	X165544.D	08/06/16	18:15	02:41	Initial cal 4
VX7097-IC7097	X165545.D	08/06/16	18:45	03:11	Initial cal 8
VX7097-IC7097	X165546.D	08/06/16	19:15	03:41	Initial cal 20
VX7097-ICC7097	X165547.D	08/06/16	19:46	04:12	Initial cal 50
VX7097-IC7097	X165548.D	08/06/16	20:16	04:42	Initial cal 100
VX7097-IC7097	X165549.D	08/06/16	20:46	05:12	Initial cal 200
VX7097-ICV7097	X165552.D	08/06/16	22:15	06:41	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7110-BFB
Lab File ID: X165987.D
Instrument ID: GCMSX
Injection Date: 08/24/16
Injection Time: 09:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10802	17.6		Pass
75	30.0 - 60.0% of mass 95	27005	44.1		Pass
95	Base peak, 100% relative abundance	61269	100.0		Pass
96	5.0 - 9.0% of mass 95	4246	6.93		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	60528	98.8		Pass
175	5.0 - 9.0% of mass 174	4991	8.15	(8.25) [a]	Pass
176	95.0 - 101.0% of mass 174	59456	97.0	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3901	6.37	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7110-CC7097	X165988.D	08/24/16	10:07	00:31	Continuing cal 20
VX7110-MB	X165990.D	08/24/16	11:10	01:34	Method Blank
VX7110-BS	X165991.D	08/24/16	11:41	02:05	Blank Spike
JC25831-1	X165993.D	08/24/16	12:40	03:04	SB-1-S
JC25831-2	X165994.D	08/24/16	13:11	03:35	SB-2-S
JC25831-3	X165995.D	08/24/16	13:41	04:05	SB-3-S
JC25831-4	X165996.D	08/24/16	14:11	04:35	SB-4-S
JC25831-6	X165997.D	08/24/16	14:41	05:05	SB-6-S
JC25831-2MS	X165998.D	08/24/16	15:11	05:35	Matrix Spike
JC25831-3DUP	X166000.D	08/24/16	16:11	06:35	Duplicate
ZZZZZZ	X166001.D	08/24/16	16:42	07:06	(unrelated sample)
ZZZZZZ	X166002.D	08/24/16	17:12	07:36	(unrelated sample)
ZZZZZZ	X166003.D	08/24/16	17:42	08:06	(unrelated sample)
ZZZZZZ	X166004.D	08/24/16	18:12	08:36	(unrelated sample)
ZZZZZZ	X166005.D	08/24/16	18:42	09:06	(unrelated sample)
ZZZZZZ	X166006.D	08/24/16	19:13	09:37	(unrelated sample)
JC25831-7	X166007.D	08/24/16	19:42	10:06	SB-7-S
ZZZZZZ	X166009.D	08/24/16	20:43	11:07	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: VX7111-BFB
Lab File ID: X166019.D
Instrument ID: GCMSX
Injection Date: 08/25/16
Injection Time: 08:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9586	17.5		Pass
75	30.0 - 60.0% of mass 95	24384	44.6		Pass
95	Base peak, 100% relative abundance	54643	100.0		Pass
96	5.0 - 9.0% of mass 95	3641	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	57656	105.5		Pass
175	5.0 - 9.0% of mass 174	4735	8.67	(8.21) [a]	Pass
176	95.0 - 101.0% of mass 174	56133	102.7	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	3755	6.87	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7111-CC7097	X166021.D	08/25/16	09:39	01:20	Continuing cal 20
VX7111-MB	X166023.D	08/25/16	10:39	02:20	Method Blank
VX7111-BS	X166024.D	08/25/16	11:10	02:51	Blank Spike
ZZZZZZ	X166026.D	08/25/16	12:10	03:51	(unrelated sample)
JC25831-8	X166027.D	08/25/16	12:40	04:21	SB-8-S-1
JC25831-11	X166028.D	08/25/16	13:10	04:51	SB-10-S
JC25831-9	X166029.D	08/25/16	13:40	05:21	SB-8-S-2
ZZZZZZ	X166030.D	08/25/16	14:10	05:51	(unrelated sample)
ZZZZZZ	X166031.D	08/25/16	14:40	06:21	(unrelated sample)
JC25831-9MS	X166032.D	08/25/16	15:10	06:51	Matrix Spike
JC25831-11DUP	X166034.D	08/25/16	16:10	07:51	Duplicate
ZZZZZZ	X166035.D	08/25/16	16:40	08:21	(unrelated sample)
ZZZZZZ	X166037.D	08/25/16	17:41	09:22	(unrelated sample)
ZZZZZZ	X166038.D	08/25/16	18:11	09:52	(unrelated sample)
ZZZZZZ	X166039.D	08/25/16	18:41	10:22	(unrelated sample)
ZZZZZZ	X166040.D	08/25/16	19:12	10:53	(unrelated sample)
ZZZZZZ	X166041.D	08/25/16	19:42	11:23	(unrelated sample)
ZZZZZZ	X166042.D	08/25/16	20:12	11:53	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC25831-1	X165993.D	105	105	98	98
JC25831-2	X165994.D	100	100	99	97
JC25831-3	X165995.D	103	102	99	96
JC25831-4	X165996.D	103	103	98	97
JC25831-5	D242700.D	98	100	102	102
JC25831-5	D242685.D	98	102	101	99
JC25831-6	X165997.D	103	101	98	97
JC25831-7	X166007.D	104	102	99	97
JC25831-8	X166027.D	107	106	98	95
JC25831-9	X166029.D	104	107	104	88
JC25831-10	E237751.D	112	119	97	93
JC25831-10	E237752.D	110	115	113	99
JC25831-11	X166028.D	105	102	99	96
JC25831-10MS	E237753.D	111	119	113	101
JC25831-10MSD	E237754.D	111	115	113	104
JC25831-11DUP	X166034.D	100	98	98	98
JC25831-2MS	X165998.D	97	85	100	101
JC25831-3DUP	X166000.D	103	103	99	97
JC25831-9MS	X166032.D	99	87	100	101
JC26348-1AMS	D242720.D	98	102	101	101
JC26348-1AMSD	D242721.D	99	103	100	103
VD9865-BS	D242682.D	99	101	101	101
VD9865-MB	D242681.D	97	99	100	100
VE10309-BS	E237746.D	107	122	100	101
VE10309-MB1	E237745.D	110	117	99	101
VX7110-BS	X165991.D	101	97	101	103
VX7110-MB	X165990.D	97	96	97	98
VX7111-BS	X166024.D	103	99	101	102
VX7111-MB	X166023.D	101	95	98	96
VD9865-MB2	D242715.D	98	100	100	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%
S4 = 4-Bromofluorobenzene	72-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-MB1	P106756.D	1	08/18/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	96%	26-122%
321-60-8	2-Fluorobiphenyl	100%	36-112%
1718-51-0	Terphenyl-d14	87%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.32	430	ug/kg	J
	system artifact	3.25	590	ug/kg	J
	system artifact	3.46	160	ug/kg	J
	system artifact	3.57	420	ug/kg	J
	system artifact/aldol-condensation	3.61	630	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	5P30732.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	81%	30-106%
4165-62-2	Phenol-d5	83%	30-106%
118-79-6	2,4,6-Tribromophenol	104%	24-140%
4165-60-0	Nitrobenzene-d5	89%	26-122%
321-60-8	2-Fluorobiphenyl	94%	36-112%
1718-51-0	Terphenyl-d14	99%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.82	450	ug/kg	J
	system artifact	1.90	340	ug/kg	J
	system artifact	2.66	360	ug/kg	J
	system artifact	2.98	250	ug/kg	J
	system artifact/aldol-condensation	3.05	250	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	3E86014.D	1	08/19/16	AN	08/17/16	OP96369	E3E3782

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	99%	30-106%
4165-62-2	Phenol-d5	96%	30-106%
118-79-6	2,4,6-Tribromophenol	121%	24-140%
4165-60-0	Nitrobenzene-d5	104%	26-122%
321-60-8	2-Fluorobiphenyl	92%	36-112%
1718-51-0	Terphenyl-d14	93%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.84	690	ug/kg	J
	system artifact	1.89	300	ug/kg	J
	system artifact	2.83	610	ug/kg	J
	system artifact	3.05	170	ug/kg	J
	system artifact	3.17	470	ug/kg	J
	system artifact/aldol-condensation	3.21	400	ug/kg	J

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MB1	3E86014.D	1	08/19/16	AN	08/17/16	OP96369	E3E3782

The QC reported here applies to the following samples: **Method:**

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-BS1	P106757.D	1	08/18/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1510	91	60-108
208-96-8	Acenaphthylene	1670	1430	86	54-94
120-12-7	Anthracene	1670	1510	91	59-109
56-55-3	Benzo(a)anthracene	1670	1460	88	52-113
50-32-8	Benzo(a)pyrene	1670	1460	88	56-122
205-99-2	Benzo(b)fluoranthene	1670	1400	84	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1470	88	48-117
207-08-9	Benzo(k)fluoranthene	1670	1430	86	52-115
218-01-9	Chrysene	1670	1420	85	51-119
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	49-118
206-44-0	Fluoranthene	1670	1520	91	58-110
86-73-7	Fluorene	1670	1430	86	59-108
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	48-120
91-20-3	Naphthalene	1670	1250	75	49-100
85-01-8	Phenanthrene	1670	1550	93	57-105
129-00-0	Pyrene	1670	1510	91	50-117

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	87%	26-122%
321-60-8	2-Fluorobiphenyl	94%	36-112%
1718-51-0	Terphenyl-d14	97%	36-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-BS1	5P30731.D	1	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1310	79	60-108
208-96-8	Acenaphthylene	1670	1250	75	54-94
120-12-7	Anthracene	1670	1310	79	59-109
56-55-3	Benzo(a)anthracene	1670	1310	79	52-113
50-32-8	Benzo(a)pyrene	1670	1410	85	56-122
205-99-2	Benzo(b)fluoranthene	1670	1460	88	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1360	82	48-117
207-08-9	Benzo(k)fluoranthene	1670	1350	81	52-115
218-01-9	Chrysene	1670	1320	79	51-119
53-70-3	Dibenzo(a,h)anthracene	1670	1480	89	49-118
206-44-0	Fluoranthene	1670	1290	77	58-110
86-73-7	Fluorene	1670	1320	79	59-108
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	48-120
91-20-3	Naphthalene	1670	1310	79	49-100
85-01-8	Phenanthrene	1670	1330	80	57-105
129-00-0	Pyrene	1670	1440	86	50-117

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	30-106%
4165-62-2	Phenol-d5	80%	30-106%
118-79-6	2,4,6-Tribromophenol	95%	24-140%
4165-60-0	Nitrobenzene-d5	81%	26-122%
321-60-8	2-Fluorobiphenyl	90%	36-112%
1718-51-0	Terphenyl-d14	96%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96370-MS	P106773.D	1	08/19/16	AD	08/17/16	OP96370	EP4726
OP96370-MSD	P106774.D	1	08/19/16	AD	08/17/16	OP96370	EP4726
JC25808-1	P106772.D	1	08/19/16	AD	08/17/16	OP96370	EP4726

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-8, JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	JC25808-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	16.6	J	1860	1500	80	1910	1570	81	5	34-125/36
208-96-8	Acenaphthylene	44.2		1860	1430	75	1910	1460	74	2	28-113/34
120-12-7	Anthracene	75.7		1860	1460	74	1910	1540	77	5	31-131/41
56-55-3	Benzo(a)anthracene	217		1860	1510	70	1910	1580	71	5	23-136/43
50-32-8	Benzo(a)pyrene	258		1860	1480	66	1910	1570	69	6	22-144/42
205-99-2	Benzo(b)fluoranthene	328		1860	1480	62	1910	1510	62	2	18-145/43
191-24-2	Benzo(g,h,i)perylene	193		1860	1460	68	1910	1560	71	7	20-138/43
207-08-9	Benzo(k)fluoranthene	129		1860	1380	67	1910	1480	71	7	27-129/43
218-01-9	Chrysene	259		1860	1520	68	1910	1600	70	5	21-142/43
53-70-3	Dibenzo(a,h)anthracene	45.2		1860	1320	69	1910	1400	71	6	25-135/41
206-44-0	Fluoranthene	550		1860	1720	63	1910	1890	70	9	15-143/46
86-73-7	Fluorene	32.8	J	1860	1430	75	1910	1480	76	3	30-129/37
193-39-5	Indeno(1,2,3-cd)pyrene	203		1860	1410	65	1910	1480	67	5	23-141/44
91-20-3	Naphthalene	ND		1860	1280	69	1910	1330	70	4	24-118/35
85-01-8	Phenanthrene	309		1860	1660	73	1910	1760	76	6	14-144/44
129-00-0	Pyrene	414		1860	1710	70	1910	1840	75	7	16-147/46

CAS No.	Surrogate Recoveries	MS	MSD	JC25808-1	Limits
367-12-4	2-Fluorophenol	89%	90%		30-106%
4165-62-2	Phenol-d5	84%	84%		30-106%
118-79-6	2,4,6-Tribromophenol	95%	93%		24-140%
4165-60-0	Nitrobenzene-d5	80%	79%	84%	26-122%
321-60-8	2-Fluorobiphenyl	86%	84%	92%	36-112%
1718-51-0	Terphenyl-d14	83%	82%	79%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96369-MS [a]	5P30741.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563
OP96369-MSD [a]	5P30742.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563
JC25801-1 [a]	5P30740.D	2	08/19/16	AN	08/17/16	OP96369	E5P1563

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC25831-1, JC25831-2, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7

CAS No.	Compound	JC25801-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		1730	651	38	1730	553	32* [b]	16	34-125/36
208-96-8	Acenaphthylene	ND		1730	605	35	1730	473	27* [b]	24	28-113/34
120-12-7	Anthracene	341	J	1730	743	23* [b]	1730	584	14* [b]	24	31-131/41
56-55-3	Benzo(a)anthracene	715		1730	936	13* [b]	1730	785	4* [b]	18	23-136/43
50-32-8	Benzo(a)pyrene	647		1730	892	14* [b]	1730	774	7* [b]	14	22-144/42
205-99-2	Benzo(b)fluoranthene	758		1730	856	6* [b]	1730	651	-6* [b]	27	18-145/43
191-24-2	Benzo(g,h,i)perylene	475		1730	771	17* [b]	1730	588	7* [b]	27	20-138/43
207-08-9	Benzo(k)fluoranthene	246	J	1730	624	22* [b]	1730	569	19* [b]	9	27-129/43
218-01-9	Chrysene	656		1730	821	10* [b]	1730	747	5* [b]	9	21-142/43
53-70-3	Dibenzo(a,h)anthracene	ND		1730	627	36	1730	525	30	18	25-135/41
206-44-0	Fluoranthene	2030		1730	1690	-20* [b]	1730	1630	-23* [b]	4	15-143/46
86-73-7	Fluorene	186	J	1730	629	26* [b]	1730	497	18* [b]	23	30-129/37
193-39-5	Indeno(1,2,3-cd)pyrene	364		1730	697	19* [b]	1730	549	11* [b]	24	23-141/44
91-20-3	Naphthalene	ND		1730	600	35	1730	484	28	21	24-118/35
85-01-8	Phenanthrene	1440		1730	1160	-16* [b]	1730	1110	-19* [b]	4	14-144/44
129-00-0	Pyrene	1220		1730	1030	-11* [b]	1730	938	-16* [b]	9	16-147/46

CAS No.	Surrogate Recoveries	MS	MSD	JC25801-1	Limits
367-12-4	2-Fluorophenol	27%* [b]	19%* [b]	28%* [c]	30-106%
4165-62-2	Phenol-d5	26%* [b]	26%* [b]	31%	30-106%
118-79-6	2,4,6-Tribromophenol	53%	38%	53%	24-140%
4165-60-0	Nitrobenzene-d5	35%	25%* [b]	35%	26-122%
321-60-8	2-Fluorobiphenyl	39%	31%* [b]	44%	36-112%
1718-51-0	Terphenyl-d14	37%	29%* [b]	41%	36-132%

(a) Elevated detection limit due to high final volume of viscous extract. Dilution required due to matrix viscosity.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to matrix interference, confirmed by MS/MSD.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3778-DFTPP
Lab File ID: 3E85942.D
Instrument ID: GCMS3E
Injection Date: 08/17/16
Injection Time: 15:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	150102	39.1		Pass
68	Less than 2.0% of mass 69	647	0.17	(0.44) [a]	Pass
69	Mass 69 relative abundance	147661	38.5		Pass
70	Less than 2.0% of mass 69	597	0.16	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	222129	57.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	383488	100.0		Pass
199	5.0 - 9.0% of mass 198	25209	6.57		Pass
275	10.0 - 30.0% of mass 198	77381	20.2		Pass
365	1.0 - 100.0% of mass 198	9645	2.52		Pass
441	Present, but less than mass 443	40448	10.5	(81.3) [b]	Pass
442	40.0 - 100.0% of mass 198	257053	67.0		Pass
443	17.0 - 23.0% of mass 442	49734	13.0	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3778-IC3778	3E85943.D	08/17/16	15:36	00:19	Initial cal 2
E3E3778-IC3778	3E85944.D	08/17/16	16:07	00:50	Initial cal 1
E3E3778-IC3778	3E85945.D	08/17/16	16:34	01:17	Initial cal 100
E3E3778-IC3778	3E85946.D	08/17/16	17:01	01:44	Initial cal 80
E3E3778-IC3778	3E85947.D	08/17/16	17:28	02:11	Initial cal 25
E3E3778-IC3778	3E85948.D	08/17/16	17:55	02:38	Initial cal 10
E3E3778-IC3778	3E85949.D	08/17/16	18:22	03:05	Initial cal 5
E3E3778-ICC3778	3E85950.D	08/17/16	18:49	03:32	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3779-DFTPP
Lab File ID: 3E85951.D
Instrument ID: GCMS3E
Injection Date: 08/17/16
Injection Time: 19:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	135192	41.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	127053	39.4		Pass
70	Less than 2.0% of mass 69	676	0.21	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	186336	57.8		Pass
197	Less than 1.0% of mass 198	1114	0.35		Pass
198	Base peak, 100% relative abundance	322624	100.0		Pass
199	5.0 - 9.0% of mass 198	20525	6.36		Pass
275	10.0 - 30.0% of mass 198	64245	19.9		Pass
365	1.0 - 100.0% of mass 198	7834	2.43		Pass
441	Present, but less than mass 443	37992	11.8	(83.8) [b]	Pass
442	40.0 - 100.0% of mass 198	249189	77.2		Pass
443	17.0 - 23.0% of mass 442	45357	14.1	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3779-ICV3778	3E85960.D	08/17/16	23:12	03:51	Initial cal verification 50
E3E3779-ICV3778	3E85961.D	08/17/16	23:39	04:18	Initial cal verification 50
E3E3779-ICV3778	3E85962.D	08/18/16	00:05	04:44	Initial cal verification 50
E3E3779-ICV3778	3E85963.D	08/18/16	00:32	05:11	Initial cal verification 50
E3E3779-ICV3778	3E85964.D	08/18/16	00:59	05:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3780-DFTPP
Lab File ID: 3E85967.D
Instrument ID: GCMS3E
Injection Date: 08/18/16
Injection Time: 10:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	113242	38.7		Pass
68	Less than 2.0% of mass 69	196	0.07	(0.18) [a]	Pass
69	Mass 69 relative abundance	111168	38.0		Pass
70	Less than 2.0% of mass 69	611	0.21	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	167120	57.2		Pass
197	Less than 1.0% of mass 198	762	0.26		Pass
198	Base peak, 100% relative abundance	292352	100.0		Pass
199	5.0 - 9.0% of mass 198	19367	6.62		Pass
275	10.0 - 30.0% of mass 198	61290	21.0		Pass
365	1.0 - 100.0% of mass 198	7309	2.50		Pass
441	Present, but less than mass 443	31377	10.7	(80.4) [b]	Pass
442	40.0 - 100.0% of mass 198	213245	72.9		Pass
443	17.0 - 23.0% of mass 442	39008	13.3	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3780-IC3780	3E85968.D	08/18/16	10:52	00:26	Initial cal 100
E3E3780-IC3780	3E85969.D	08/18/16	11:18	00:52	Initial cal 80
E3E3780-ICC3780	3E85970.D	08/18/16	11:45	01:19	Initial cal 50
E3E3780-IC3780	3E85971.D	08/18/16	12:12	01:46	Initial cal 25
E3E3780-IC3780	3E85972.D	08/18/16	12:39	02:13	Initial cal 10
E3E3780-IC3780	3E85973.D	08/18/16	13:06	02:40	Initial cal 5
E3E3780-IC3780	3E85974.D	08/18/16	13:33	03:07	Initial cal 2
E3E3780-IC3780	3E85975.D	08/18/16	14:00	03:34	Initial cal 1
E3E3780-ICV3780	3E85976.D	08/18/16	14:27	04:01	Initial cal verification 50
E3E3780-ICV3780	3E85977.D	08/18/16	14:54	04:28	Initial cal verification 50
E3E3780-ICV3780	3E85978.D	08/18/16	15:21	04:55	Initial cal verification 50
E3E3780-ICV3780	3E85979.D	08/18/16	15:48	05:22	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E3E3782-DFTPP
Lab File ID: 3E86011.D
Instrument ID: GCMS3E
Injection Date: 08/19/16
Injection Time: 10:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	165258	39.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	165959	39.8		Pass
70	Less than 2.0% of mass 69	828	0.20	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	249088	59.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	416938	100.0		Pass
199	5.0 - 9.0% of mass 198	29386	7.05		Pass
275	10.0 - 30.0% of mass 198	96984	23.3		Pass
365	1.0 - 100.0% of mass 198	13707	3.29		Pass
441	Present, but less than mass 443	61261	14.7	(82.2) [b]	Pass
442	40.0 - 100.0% of mass 198	396330	95.1		Pass
443	17.0 - 23.0% of mass 442	74570	17.9	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3782-CC3778	3E86012.D	08/19/16	10:48	00:12	Continuing cal 25
E3E3782-CC3780	3E86013.D	08/19/16	11:18	00:42	Continuing cal 25
OP96369-MB1	3E86014.D	08/19/16	11:49	01:13	Method Blank
OP96402-BS1	3E86015.D	08/19/16	12:14	01:38	Blank Spike
OP96402-MB1	3E86016.D	08/19/16	12:39	02:03	Method Blank
ZZZZZZ	3E86023.D	08/19/16	13:05	02:29	(unrelated sample)
C46858-1	3E86017.D	08/19/16	13:55	03:19	(used for QC only; not part of job JC25831)
OP96402-MS	3E86018.D	08/19/16	14:21	03:45	Matrix Spike
OP96402-MSD	3E86019.D	08/19/16	14:46	04:10	Matrix Spike Duplicate
ZZZZZZ	3E86020.D	08/19/16	15:11	04:35	(unrelated sample)
ZZZZZZ	3E86025.D	08/19/16	15:37	05:01	(unrelated sample)
ZZZZZZ	3E86026.D	08/19/16	16:02	05:26	(unrelated sample)
ZZZZZZ	3E86027.D	08/19/16	16:27	05:51	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1542-DFTPP
Lab File ID: 5P30299.D
Instrument ID: GCMS5P
Injection Date: 08/04/16
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34420	41.9		Pass
68	Less than 2.0% of mass 69	88	0.11	(0.22) [a]	Pass
69	Mass 69 relative abundance	39630	48.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	45640	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	82218	100.0		Pass
199	5.0 - 9.0% of mass 198	5051	6.14		Pass
275	10.0 - 30.0% of mass 198	18355	22.3		Pass
365	1.0 - 100.0% of mass 198	2548	3.10		Pass
441	Present, but less than mass 443	4847	5.90	(39.8) [b]	Pass
442	40.0 - 100.0% of mass 198	69594	84.6		Pass
443	17.0 - 23.0% of mass 442	12189	14.8	(17.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1542-IC1542	5P30302.D	08/04/16	11:13	01:28	Initial cal 2
E5P1542-IC1542	5P30304.D	08/04/16	12:06	02:21	Initial cal 100
E5P1542-IC1542	5P30305.D	08/04/16	12:31	02:46	Initial cal 80
E5P1542-IC1542	5P30306.D	08/04/16	12:55	03:10	Initial cal 25
E5P1542-IC1542	5P30307.D	08/04/16	13:19	03:34	Initial cal 10
E5P1542-IC1542	5P30308.D	08/04/16	13:43	03:58	Initial cal 5
E5P1542-ICC1542	5P30309.D	08/04/16	14:07	04:22	Initial cal 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1543-DFTPP
Lab File ID: 5P30310.D
Instrument ID: GCMS5P
Injection Date: 08/04/16
Injection Time: 14:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	25237	38.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	28381	43.8		Pass
70	Less than 2.0% of mass 69	88	0.14	(0.31) [a]	Pass
127	40.0 - 60.0% of mass 198	34562	53.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	64824	100.0		Pass
199	5.0 - 9.0% of mass 198	4841	7.47		Pass
275	10.0 - 30.0% of mass 198	16060	24.8		Pass
365	1.0 - 100.0% of mass 198	2524	3.89		Pass
441	Present, but less than mass 443	6537	10.1	(57.9) [b]	Pass
442	40.0 - 100.0% of mass 198	61848	95.4		Pass
443	17.0 - 23.0% of mass 442	11288	17.4	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1543-IC1543	5P30311.D	08/04/16	14:50	00:15	Initial cal 100
E5P1543-IC1543	5P30312.D	08/04/16	15:14	00:39	Initial cal 80
E5P1543-ICC1543	5P30313.D	08/04/16	15:38	01:03	Initial cal 50
E5P1543-IC1543	5P30314.D	08/04/16	16:02	01:27	Initial cal 25
E5P1543-IC1543	5P30315.D	08/04/16	16:26	01:51	Initial cal 10
E5P1543-IC1543	5P30316.D	08/04/16	16:50	02:15	Initial cal 5
E5P1543-IC1543	5P30317.D	08/04/16	17:14	02:39	Initial cal 2
E5P1543-IC1543	5P30318.D	08/04/16	17:38	03:03	Initial cal 1
E5P1543-ICV1542	5P30319.D	08/04/16	18:02	03:27	Initial cal verification 50
E5P1543-ICV1542	5P30320.D	08/04/16	18:26	03:51	Initial cal verification 50
E5P1543-ICV1542	5P30321.D	08/04/16	18:50	04:15	Initial cal verification 50
E5P1543-ICV1543	5P30322A.D	08/04/16	19:14	04:39	Initial cal verification 50
E5P1543-ICV1542	5P30322.D	08/04/16	19:14	04:39	Initial cal verification 50
E5P1543-ICV1542	5P30323.D	08/04/16	19:38	05:03	Initial cal verification 50
E5P1543-ICV1543	5P30323A.D	08/04/16	19:38	05:03	Initial cal verification 50
E5P1543-ICV1542	5P30324.D	08/04/16	20:02	05:27	Initial cal verification 50
E5P1543-ICV1543	5P30325.D	08/04/16	20:26	05:51	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1563-DFTPP
Lab File ID: 5P30726.D
Instrument ID: GCMS5P
Injection Date: 08/19/16
Injection Time: 08:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50825	36.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	59998	43.5		Pass
70	Less than 2.0% of mass 69	21	0.02	(0.04) [a]	Pass
127	40.0 - 60.0% of mass 198	72813	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	137821	100.0		Pass
199	5.0 - 9.0% of mass 198	8317	6.03		Pass
275	10.0 - 30.0% of mass 198	31686	23.0		Pass
365	1.0 - 100.0% of mass 198	2956	2.14		Pass
441	Present, but less than mass 443	8925	6.48	(43.5) [b]	Pass
442	40.0 - 100.0% of mass 198	108410	78.7		Pass
443	17.0 - 23.0% of mass 442	20508	14.9	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1563-CC1542	5P30727.D	08/19/16	08:32	00:15	Continuing cal 50
E5P1563-CC1543	5P30728.D	08/19/16	08:56	00:39	Continuing cal 50
OP96369-BS1	5P30731.D	08/19/16	10:08	01:51	Blank Spike
OP96369-MB1	5P30732.D	08/19/16	10:32	02:15	Method Blank
ZZZZZZ	5P30733.D	08/19/16	10:57	02:40	(unrelated sample)
ZZZZZZ	5P30734.D	08/19/16	11:21	03:04	(unrelated sample)
ZZZZZZ	5P30735.D	08/19/16	11:45	03:28	(unrelated sample)
ZZZZZZ	5P30736.D	08/19/16	12:10	03:53	(unrelated sample)
ZZZZZZ	5P30737.D	08/19/16	12:34	04:17	(unrelated sample)
ZZZZZZ	5P30738.D	08/19/16	12:58	04:41	(unrelated sample)
JC25801-1	5P30740.D	08/19/16	13:47	05:30	(used for QC only; not part of job JC25831)
OP96369-MS	5P30741.D	08/19/16	14:12	05:55	Matrix Spike
OP96369-MSD	5P30742.D	08/19/16	14:36	06:19	Matrix Spike Duplicate
JC25831-1	5P30746A.D	08/19/16	16:38	08:21	SB-1-S
JC25831-4	5P30748.D	08/19/16	18:02	09:45	SB-4-S
JC25831-5	5P30749.D	08/19/16	18:26	10:09	SB-5-S
JC25831-6	5P30750.D	08/19/16	18:50	10:33	SB-6-S
JC25831-7	5P30751.D	08/19/16	19:15	10:58	SB-7-S
JC25831-3	5P30752.D	08/19/16	19:39	11:22	SB-3-S

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	E5P1563-DFTPP	**Injection Date:**	08/19/16
Lab File ID:	5P30726.D	**Injection Time:**	08:17
Instrument ID:	GCMS5P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5P30753.D	08/19/16	20:04	11:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: E5P1565-DFTPP
Lab File ID: 5P30781.D
Instrument ID: GCMS5P
Injection Date: 08/22/16
Injection Time: 12:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41633	38.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46749	42.7		Pass
70	Less than 2.0% of mass 69	557	0.51	(1.19) [a]	Pass
127	40.0 - 60.0% of mass 198	56162	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	109578	100.0		Pass
199	5.0 - 9.0% of mass 198	7675	7.00		Pass
275	10.0 - 30.0% of mass 198	25099	22.9		Pass
365	1.0 - 100.0% of mass 198	3631	3.31		Pass
441	Present, but less than mass 443	11365	10.4	(66.3) [b]	Pass
442	40.0 - 100.0% of mass 198	87673	80.0		Pass
443	17.0 - 23.0% of mass 442	17137	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1565-CC1542	5P30782.D	08/22/16	13:04	00:14	Continuing cal 50
E5P1565-CC1543	5P30783.D	08/22/16	13:28	00:38	Continuing cal 50
OP96428-MB1	5P30785.D	08/22/16	14:41	01:51	Method Blank
OP96428-BS1	5P30786.D	08/22/16	15:06	02:16	Blank Spike
OP96428-BS13	5P30787.D	08/22/16	15:30	02:40	Blank Spike
OP96428-MS	5P30788.D	08/22/16	15:54	03:04	Matrix Spike
OP96428-MSD	5P30789.D	08/22/16	16:18	03:28	Matrix Spike Duplicate
JC25908-1B	5P30790.D	08/22/16	16:43	03:53	(used for QC only; not part of job JC25831)
ZZZZZZ	5P30791.D	08/22/16	17:08	04:18	(unrelated sample)
ZZZZZZ	5P30792.D	08/22/16	17:32	04:42	(unrelated sample)
ZZZZZZ	5P30793.D	08/22/16	17:56	05:06	(unrelated sample)
ZZZZZZ	5P30794.D	08/22/16	18:21	05:31	(unrelated sample)
ZZZZZZ	5P30795.D	08/22/16	18:46	05:56	(unrelated sample)
ZZZZZZ	5P30796.D	08/22/16	19:10	06:20	(unrelated sample)
JC25831-2	5P30798.D	08/22/16	19:35	06:45	SB-2-S
JC25831-5	5P30799.D	08/22/16	19:59	07:09	SB-5-S

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4722-DFTPP
Lab File ID: P106722.D
Instrument ID: GCMSP
Injection Date: 08/17/16
Injection Time: 01:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	14558	35.9		Pass
68	Less than 2.0% of mass 69	211	0.52	(1.21) [a]	Pass
69	Mass 69 relative abundance	17382	42.9		Pass
70	Less than 2.0% of mass 69	328	0.81	(1.89) [a]	Pass
127	40.0 - 60.0% of mass 198	19221	47.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	40504	100.0		Pass
199	5.0 - 9.0% of mass 198	2734	6.75		Pass
275	10.0 - 30.0% of mass 198	8790	21.7		Pass
365	1.0 - 100.0% of mass 198	823	2.03		Pass
441	Present, but less than mass 443	3197	7.89	(73.7) [b]	Pass
442	40.0 - 100.0% of mass 198	22247	54.9		Pass
443	17.0 - 23.0% of mass 442	4335	10.7	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4722-ICC4722	P106723.D	08/17/16	01:15	00:14	Initial cal 50
EP4722-IC4722	P106724.D	08/17/16	01:43	00:42	Initial cal 1
EP4722-IC4722	P106725.D	08/17/16	02:11	01:10	Initial cal 2
EP4722-IC4722	P106726.D	08/17/16	02:39	01:38	Initial cal 5
EP4722-IC4722	P106727.D	08/17/16	03:07	02:06	Initial cal 10
EP4722-IC4722	P106728.D	08/17/16	03:36	02:35	Initial cal 25
EP4722-IC4722	P106729.D	08/17/16	04:04	03:03	Initial cal 80
EP4722-IC4722	P106730.D	08/17/16	04:33	03:32	Initial cal 100

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4723-DFTPP
Lab File ID: P106731A.D
Instrument ID: GCMSP
Injection Date: 08/17/16
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17652	38.7		Pass
68	Less than 2.0% of mass 69	175	0.38	(0.83) [a]	Pass
69	Mass 69 relative abundance	21194	46.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	21478	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	45633	100.0		Pass
199	5.0 - 9.0% of mass 198	3102	6.80		Pass
275	10.0 - 30.0% of mass 198	8957	19.6		Pass
365	1.0 - 100.0% of mass 198	678	1.49		Pass
441	Present, but less than mass 443	3009	6.59	(70.3) [b]	Pass
442	40.0 - 100.0% of mass 198	20716	45.4		Pass
443	17.0 - 23.0% of mass 442	4283	9.39	(20.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4723-IC4723	P106732.D	08/17/16	09:20	00:16	Initial cal 100
EP4723-IC4723	P106733.D	08/17/16	09:54	00:50	Initial cal 80
EP4723-ICC4723	P106734.D	08/17/16	10:22	01:18	Initial cal 50
EP4723-IC4723	P106735.D	08/17/16	10:56	01:52	Initial cal 25
EP4723-IC4723	P106736.D	08/17/16	11:31	02:27	Initial cal 10
EP4723-IC4723	P106737.D	08/17/16	12:07	03:03	Initial cal 5
EP4723-IC4723	P106738.D	08/17/16	12:42	03:38	Initial cal 2
EP4723-IC4723	P106739.D	08/17/16	13:19	04:15	Initial cal 1
EP4723-ICV4722	P106740.D	08/17/16	13:54	04:50	Initial cal verification 50
EP4723-ICV4723	P106740A.D	08/17/16	13:54	04:50	Initial cal verification 50
EP4723-ICV4722	P106742.D	08/17/16	15:01	05:57	Initial cal verification 50
EP4723-ICV4722	P106743.D	08/17/16	15:36	06:32	Initial cal verification 50
EP4723-ICV4722	P106744.D	08/17/16	16:10	07:06	Initial cal verification 50
EP4723-ICV4723	P106745.D	08/17/16	16:45	07:41	Initial cal verification 50
EP4723-ICV4723	P106746.D	08/17/16	17:13	08:09	Initial cal verification 50
EP4723-ICV4722	P106746A.D	08/17/16	17:13	08:09	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4725-DFTPP
Lab File ID: P106749.D
Instrument ID: GCMSP
Injection Date: 08/18/16
Injection Time: 11:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15888	38.0		Pass
68	Less than 2.0% of mass 69	170	0.41	(0.88) [a]	Pass
69	Mass 69 relative abundance	19241	46.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	19675	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	41782	100.0		Pass
199	5.0 - 9.0% of mass 198	2830	6.77		Pass
275	10.0 - 30.0% of mass 198	8698	20.8		Pass
365	1.0 - 100.0% of mass 198	731	1.75		Pass
441	Present, but less than mass 443	2984	7.14	(81.5) [b]	Pass
442	40.0 - 100.0% of mass 198	19124	45.8		Pass
443	17.0 - 23.0% of mass 442	3660	8.76	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4725-ICV4722	P106751.D	08/18/16	12:15	00:50	Initial cal verification 50
EP4725-ICV4723	P106751A.D	08/18/16	12:15	00:50	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4726-DFTPP
Lab File ID: P106752.D
Instrument ID: GCMSP
Injection Date: 08/18/16
Injection Time: 13:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28751	38.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33733	44.8		Pass
70	Less than 2.0% of mass 69	129	0.17	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	36293	48.2		Pass
197	Less than 1.0% of mass 198	256	0.34		Pass
198	Base peak, 100% relative abundance	75325	100.0		Pass
199	5.0 - 9.0% of mass 198	5319	7.06		Pass
275	10.0 - 30.0% of mass 198	15101	20.0		Pass
365	1.0 - 100.0% of mass 198	1502	1.99		Pass
441	Present, but less than mass 443	6233	8.27	(80.7) [b]	Pass
442	40.0 - 100.0% of mass 198	39962	53.1		Pass
443	17.0 - 23.0% of mass 442	7726	10.3	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4726-CC4722	P106753.D	08/18/16	15:06	01:19	Continuing cal 50
EP4726-CC4723	P106754.D	08/18/16	15:34	01:47	Continuing cal 50
OP96370-MB1	P106756.D	08/18/16	16:31	02:44	Method Blank
OP96370-BS1	P106757.D	08/18/16	16:59	03:12	Blank Spike
ZZZZZZ	P106758.D	08/18/16	17:28	03:41	(unrelated sample)
ZZZZZZ	P106759.D	08/18/16	17:56	04:09	(unrelated sample)
ZZZZZZ	P106760.D	08/18/16	18:24	04:37	(unrelated sample)
ZZZZZZ	P106761.D	08/18/16	18:53	05:06	(unrelated sample)
ZZZZZZ	P106762.D	08/18/16	19:21	05:34	(unrelated sample)
ZZZZZZ	P106763.D	08/18/16	19:49	06:02	(unrelated sample)
ZZZZZZ	P106765.D	08/18/16	20:46	06:59	(unrelated sample)
ZZZZZZ	P106766.D	08/18/16	21:14	07:27	(unrelated sample)
ZZZZZZ	P106767.D	08/18/16	21:42	07:55	(unrelated sample)
ZZZZZZ	P106768.D	08/18/16	22:11	08:24	(unrelated sample)
ZZZZZZ	P106769.D	08/18/16	22:39	08:52	(unrelated sample)
ZZZZZZ	P106770.D	08/18/16	23:07	09:20	(unrelated sample)
ZZZZZZ	P106771.D	08/18/16	23:35	09:48	(unrelated sample)
JC25808-1	P106772.D	08/19/16	00:03	10:16	(used for QC only; not part of job JC25831)
OP96370-MS	P106773.D	08/19/16	00:31	10:44	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	EP4726-DFTPP	**Injection Date:**	08/18/16
Lab File ID:	P106752.D	**Injection Time:**	13:47
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP96370-MSD	P106774.D	08/19/16	00:59	11:12	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4727-DFTPP
Lab File ID: P106775.D
Instrument ID: GCMSP
Injection Date: 08/19/16
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29989	38.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	36274	46.1		Pass
70	Less than 2.0% of mass 69	160	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	38250	48.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	78661	100.0		Pass
199	5.0 - 9.0% of mass 198	5636	7.16		Pass
275	10.0 - 30.0% of mass 198	15405	19.6		Pass
365	1.0 - 100.0% of mass 198	1467	1.86		Pass
441	Present, but less than mass 443	5675	7.21	(79.4) [b]	Pass
442	40.0 - 100.0% of mass 198	36573	46.5		Pass
443	17.0 - 23.0% of mass 442	7150	9.09	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4727-CC4722	P106776.D	08/19/16	08:35	00:12	Continuing cal 25
EP4727-CC4723	P106777.D	08/19/16	09:09	00:46	Continuing cal 25
OP96278-BS1	P106779.D	08/19/16	10:18	01:55	Blank Spike
OP96278-MB1	P106780.D	08/19/16	10:52	02:29	Method Blank
ZZZZZZ	P106781.D	08/19/16	11:26	03:03	(unrelated sample)
ZZZZZZ	P106782.D	08/19/16	12:00	03:37	(unrelated sample)
ZZZZZZ	P106783.D	08/19/16	12:28	04:05	(unrelated sample)
OP96153A-MB1	P106796.D	08/19/16	13:03	04:40	Method Blank
ZZZZZZ	P106799.D	08/19/16	13:31	05:08	(unrelated sample)
ZZZZZZ	P106800.D	08/19/16	13:59	05:36	(unrelated sample)
ZZZZZZ	P106797.D	08/19/16	14:32	06:09	(unrelated sample)
JC25691-2	P106784.D	08/19/16	15:00	06:37	(used for QC only; not part of job JC25831)
OP96278-MS	P106785.D	08/19/16	16:03	07:40	Matrix Spike
OP96278-MSD	P106786.D	08/19/16	16:37	08:14	Matrix Spike Duplicate
ZZZZZZ	P106787.D	08/19/16	17:11	08:48	(unrelated sample)
ZZZZZZ	P106788.D	08/19/16	17:39	09:16	(unrelated sample)
ZZZZZZ	P106789.D	08/19/16	18:07	09:44	(unrelated sample)
ZZZZZZ	P106790.D	08/19/16	18:36	10:13	(unrelated sample)
ZZZZZZ	P106791.D	08/19/16	19:04	10:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4727-DFTPP
Lab File ID: P106775.D
Instrument ID: GCMSP
Injection Date: 08/19/16
Injection Time: 08:23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC25831-8	P106792.D	08/19/16	19:32	11:09	SB-8-S-1
JC25831-9	P106793.D	08/19/16	20:00	11:37	SB-8-S-2

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: EP4730-DFTPP
Lab File ID: P106850.D
Instrument ID: GCMSP
Injection Date: 08/22/16
Injection Time: 09:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17254	38.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	19003	42.9		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	21565	48.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	44346	100.0		Pass
199	5.0 - 9.0% of mass 198	2939	6.63		Pass
275	10.0 - 30.0% of mass 198	9045	20.4		Pass
365	1.0 - 100.0% of mass 198	684	1.54		Pass
441	Present, but less than mass 443	3403	7.67	(76.2) [b]	Pass
442	40.0 - 100.0% of mass 198	21880	49.3		Pass
443	17.0 - 23.0% of mass 442	4468	10.1	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4730-CC4722	P106851.D	08/22/16	09:47	00:18	Continuing cal 50
EP4730-CC4723	P106852.D	08/22/16	10:20	00:51	Continuing cal 50
OP96452-MB1	P106854.D	08/22/16	11:27	01:58	Method Blank
OP96452-BS1	P106855.D	08/22/16	12:01	02:32	Blank Spike
JC25831-10	P106856.D	08/22/16	12:34	03:05	SB-9-S
JC25831-11	P106857.D	08/22/16	13:06	03:37	SB-10-S
ZZZZZZ	P106877.D	08/22/16	13:34	04:05	(unrelated sample)
ZZZZZZ	P106858.D	08/22/16	14:07	04:38	(unrelated sample)
ZZZZZZ	P106859.D	08/22/16	14:40	05:11	(unrelated sample)
ZZZZZZ	P106860.D	08/22/16	15:12	05:43	(unrelated sample)
ZZZZZZ	P106861.D	08/22/16	15:44	06:15	(unrelated sample)
ZZZZZZ	P106862.D	08/22/16	16:17	06:48	(unrelated sample)
ZZZZZZ	P106863.D	08/22/16	16:46	07:17	(unrelated sample)
ZZZZZZ	P106864.D	08/22/16	17:14	07:45	(unrelated sample)
ZZZZZZ	P106865.D	08/22/16	17:48	08:19	(unrelated sample)
JC26013-11	P106866.D	08/22/16	18:16	08:47	(used for QC only; not part of job JC25831)
ZZZZZZ	P106867.D	08/22/16	18:44	09:15	(unrelated sample)
ZZZZZZ	P106868.D	08/22/16	19:13	09:44	(unrelated sample)
ZZZZZZ	P106869.D	08/22/16	19:42	10:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample:	EP4730-DFTPP	**Injection Date:**	08/22/16
Lab File ID:	P106850.D	**Injection Time:**	09:29
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P106870.D	08/22/16	20:10	10:41	(unrelated sample)
ZZZZZZ	P106871.D	08/22/16	20:39	11:10	(unrelated sample)
ZZZZZZ	P106872.D	08/22/16	21:07	11:38	(unrelated sample)

Semivolatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC25831-1	5P30746A.D	82	101	92
JC25831-2	5P30798.D	84	99	86
JC25831-3	5P30752.D	68	90	107
JC25831-4	5P30748.D	82	92	62
JC25831-5	5P30799.D	111	112	112
JC25831-5	5P30749.D	60	78	96
JC25831-6	5P30750.D	85	98	67
JC25831-7	5P30751.D	73	89	76
JC25831-8	P106792.D	98	101	90
JC25831-9	P106793.D	94	96	84
JC25831-10	P106856.D	119	94	72
JC25831-11	P106857.D	96	96	88
OP96369-BS1	5P30731.D	81	90	96
OP96369-MB1	5P30732.D	89	94	99
OP96369-MB1	3E86014.D	104	92	93
OP96369-MS	5P30741.D	35	39	37
OP96369-MSD	5P30742.D	25* [a]	31* [a]	29* [a]
OP96370-BS1	P106757.D	87	94	97
OP96370-MB1	P106756.D	96	100	87
OP96370-MS	P106773.D	80	86	83
OP96370-MSD	P106774.D	79	84	82

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	26-122%
S2 = 2-Fluorobiphenyl	36-112%
S3 = Terphenyl-d14	36-132%

(a) Outside control limits due to matrix interference.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-MB1	7Y19171.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	13-142%
16416-32-3	Tetracosane-d50	97%	12-141%
438-22-2	5a-Androstane	93%	13-142%

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-MB1	2Y78867.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	114%	13-142%
16416-32-3	Tetracosane-d50	109%	12-141%
438-22-2	5a-Androstane	108%	13-142%

Method Blank Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-MB1	ZZ78591.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	13-142%
16416-32-3	Tetracosane-d50	112%	12-141%
438-22-2	5a-Androstane	112%	13-142%

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-BS1	7Y19172.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	82.5	83	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	94%	13-142%
16416-32-3	Tetracosane-d50	107%	12-141%
438-22-2	5a-Androstane	101%	13-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-BS1	2Y78868.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	75.3	75	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	106%	13-142%
16416-32-3	Tetracosane-d50	109%	12-141%
438-22-2	5a-Androstane	105%	13-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-BS1	ZZ78592.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	100	92.1	92	46-125

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	92%	13-142%
16416-32-3	Tetracosane-d50	119%	12-141%
438-22-2	5a-Androstane	117%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96345-MS	7Y19175.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
OP96345-MSD	7Y19176.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759
JC25831-1	7Y19174.D	1	08/17/16	TL	08/16/16	OP96345	G7Y759

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-1, JC25831-3, JC25831-4, JC25831-5, JC25831-6, JC25831-7, JC25831-8

CAS No.	Compound	JC25831-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		84.2	57.0	68	82.6	50.7	61	12	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25831-1	Limits
84-15-1	o-Terphenyl	79%	72%	84%	13-142%
16416-32-3	Tetracosane-d50	92%	80%	91%	12-141%
438-22-2	5a-Androstane	86%	77%	88%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96368-MS	2Y78870.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
OP96368-MSD	2Y78871.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045
JC25850-13	2Y78869.D	1	08/18/16	HC	08/17/16	OP96368	G2Y3045

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-9, JC25831-10, JC25831-11

CAS No.	Compound	JC25850-13 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		104	63.9	61	95.7	59.5	62	7	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25850-13	Limits
84-15-1	o-Terphenyl	88%	88%	98%	13-142%
16416-32-3	Tetracosane-d50	92%	90%	94%	12-141%
438-22-2	5a-Androstane	89%	88%	93%	13-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96381-MS	ZZ78594.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813
OP96381-MSD	ZZ78595.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813
JC25937-2	ZZ78593.D	1	08/18/16	TL	08/17/16	OP96381	GZZ2813

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC25831-2

CAS No.	Compound	JC25937-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	27.8		98.8	93.3	66	90.5	90.1	69	3	10-160/50

CAS No.	Surrogate Recoveries	MS	MSD	JC25937-2	Limits
84-15-1	o-Terphenyl	63%	67%	68%	13-142%
16416-32-3	Tetracosane-d50	87%	84%	84%	12-141%
438-22-2	5a-Androstane	77%	84%	85%	13-142%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC25831
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]
JC25831-1	7Y19174.D	84	91	88
JC25831-2	ZZ78606.D	85	109	108
JC25831-3	7Y19187.D	84	97	89
JC25831-4	7Y19188.D	79	86	84
JC25831-5	7Y19189.D	322* [b]	109	126
JC25831-6	7Y19192.D	87	95	90
JC25831-7	7Y19193.D	83	93	88
JC25831-8	7Y19194.D	87	97	93
JC25831-9	2Y78884.D	116	110	109
JC25831-10	2Y78887.D	125	97	102
JC25831-11	2Y78888.D	92	88	87
OP96345-BS1	7Y19172.D	94	107	101
OP96345-MB1	7Y19171.D	87	97	93
OP96345-MS	7Y19175.D	79	92	86
OP96345-MSD	7Y19176.D	72	80	77
OP96368-BS1	2Y78868.D	106	109	105
OP96368-MB1	2Y78867.D	114	109	108
OP96368-MS	2Y78870.D	88	92	89
OP96368-MSD	2Y78871.D	88	90	88
OP96381-BS1	ZZ78592.D	92	119	117
OP96381-MB1	ZZ78591.D	89	112	112
OP96381-MS	ZZ78594.D	63	87	77
OP96381-MSD	ZZ78595.D	67	84	84

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	13-142%
S2 = Tetracosane-d50	12-141%
S3 = 5a-Androstane	13-142%

(a) Recovery from GC signal #1
(b) Outside control limits due to matrix interference.

ATTACHMENT 4

Well Completion Reports

C 1 07783 SEQUENCE NO. (MDE USE ONLY)

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 02

ST/CO USE ONLY DATE Received MM DD YY 10 20 15

DATE WELL COMPLETED MM 9 DD 4 YY 2015

Depth of Well 15 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA - 14 - 0197

OWNER BALTIMORE COUNTY (last name) (first name)

WELL SITE ADDRESS 1797 MERRIT BLVD TOWN DUNDALK

SUBDIVISION SECTION 0011 LOT 0015

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Brown Fine Silty Sand	0	5	
Brown Silty Sand with some gravel	5	10	
Fine to med wet Brown Sand	10	15	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: M D 092

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y no N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 2 NO. OF POUNDS 100

GALLONS OF WATER 14

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 5 ft.

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
	4	5

OTHER CASING (if used) EACH CASING

diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL BR BRASS BRONZE HO OPEN HOLE PL PLASTIC OT OTHER

C 2

DEPTH (nearest ft.) EACH SCREEN

1 15

2

3

SLOT SIZE 1 010 2 3

DIAMETER OF SCREEN 4 (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL. INSERT F IN BOX 68

from	to
2	15

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) .5

PUMPING RATE (gal. per min.) 1

METHOD USED TO MEASURE PUMPING RATE Bucket & watch

WATER LEVEL (distance from land surface)

BEFORE PUMPING 4288 ft.

WHEN PUMPING 10 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine

C centrifugal R rotary O other (describe below)

J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.

CAPACITY: GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

+ above

– below

LAND SURFACE .5 (nearest foot)

LATITUDE 3 _ . _ _ _ _ _ _

LONGITUDE 7 _ . _ _ _ _ _ _

(DEFAULT COORD. WGS 84)

NOTES:

MW-1 15

MDE/WMA/PER.071

C 1 | 07784 — SEQUENCE NO. (MDE USE ONLY)

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 02

ST/CO USE ONLY — DATE Received MM DD YY 10 20 15 (8–13)

DATE WELL COMPLETED MM DD YY 8 19 2015 (15–20)

Depth of Well 15 (22–26) (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 14 - 14 - 0178 (28–37)

OWNER Baltimore County

WELL SITE ADDRESS (last name) 1747 Merritt Blvd (first name) TOWN Dundalk

SUBDIVISION _____ SECTION 0011 LOT 0015

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Brown Fine Sand	0	5	
Brown Silty Sand & gravel	5	10	✓
10-15 Fine to med wet brown sandy	10	15	✓

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes [Y] no [N]

CIRCLE APPROPRIATE LETTER
- A — A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E — ELECTRIC LOG OBTAINED
- P — TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. M 6 D 09 _ _ _

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. _ _ D _ _ _

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] (44) no [N] (44)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] (45 46) BENTONITE CLAY [BC] (45 46)

NO. OF BAGS 2 NO. OF POUNDS 142

GALLONS OF WATER 14

DEPTH OF GROUT SEAL (to nearest foot) from 0 (48 TOP 52) ft. to 5 (54 BOTTOM 58) ft. (enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below: [ST] STEEL, [CO] CONCRETE, [PL] PLASTIC, [OT] OTHER

MAIN CASING TYPE (60 61)	Nominal diameter top (main) casing (nearest inch)! (63 64)	Total depth of main casing (nearest foot) (66 70)
PL	4	5

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole — insert appropriate code below: [ST] STEEL, [BR] BRASS BRONZE, [HO] OPEN HOLE, [PL] PLASTIC, [OT] OTHER

C 2 — DEPTH (nearest ft.) 15

EACH SCREEN: 1 (8 9 / 11 15 / 17 21); 2 (23 24 / 26 30 / 32 36); 3 (38 39 / 41 45 / 47 51)

SLOT SIZE 1 .010 2 _____ 3 _____

DIAMETER OF SCREEN 4 (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68: from 2 to 15 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING — LOG INDICATOR — OTHER DATA

C 3

PUMPING TEST
HOURS PUMPED (nearest hour) .5 (8 9)

PUMPING RATE (gal. per min.) 1 (11 15)

METHOD USED TO MEASURE PUMPING RATE Bucket & watch

WATER LEVEL (distance from land surface)

BEFORE PUMPING 8 (17 20) ft.

WHEN PUMPING 10 (22 25) ft.

TYPE OF PUMP USED (for test): [A] air, [P] piston, [T] turbine, [C] centrifugal, [R] rotary, [O] other (describe below), [J] jet, [S] submersible

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) (31 35)

PUMP HORSE POWER (37 41)

PUMP COLUMN LENGTH (nearest ft.) (43 47)

CASING HEIGHT (circle appropriate box and enter casing height) [+] above (49) [−] below (49) LAND SURFACE .5 (nearest) foot (50 51)

LATITUDE 39.268151
LONGITUDE 76.5028026
(DEFAULT COORD. WGS 84)
NOTES:

MW-2

15

MDE/WMA/PER.071

C 1 07785 SEQUENCE NO. (MDE USE ONLY)

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 02

DATE RECEIVED (CO. USE ONLY) MM DD YY 10/01/13 (6–13)

DATE WELL COMPLETED MM 9 DD 14 YY 2013 (15–20)

Depth of Well 22 (22–26) (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA - 14 - 0199 (28–37)

OWNER BALTIMORE COUNTY

WELL SITE ADDRESS 1147 MELVIN BLVD (last name / first name) TOWN DUNDALK

SUBDIVISION SECTION 0011 LOT 0015

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
BROWN SILTY SAND	0	5	
BROWN SILTY SAND + COBBLES	5	12	
~~12~~ ~~15~~ FINE to MED BROWN SAND	12	15	✓
BROWN SAND + COBBLES	15	21	✓
BROWN CLAY	21	22	

NUMBER OF UNSUCCESSFUL WELLS: ____

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: M ___ D ___

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: ___ D ___

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y (44) no N (44)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM (45 46) BENTONITE CLAY BC (45 46)

NO. OF BAGS 2 NO. OF POUNDS 100

GALLONS OF WATER 11

DEPTH OF GROUT SEAL (to nearest foot) from 0 (48 TOP 52) ft. to 9 (54 BOTTOM 58) ft. (enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below: ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER

MAIN CASING TYPE (60 61)	Nominal diameter top (main) casing (nearest inch) (63 64)	Total depth of main casing (nearest foot) (66 70)
PL	4	12

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below: ST STEEL, BR BRASS BRONZE, HO OPEN HOLE, PL PLASTIC, OT OTHER

C 2

DEPTH (nearest ft.)

EACH SCREEN		
1 PL (8 9)	22 (11–15)	(17–21)
2 (23 24)	(26–30)	(32–36)
3 (38 39)	(41–45)	(47–51)

SLOT SIZE 1 .010 2 ___ 3 ___

DIAMETER OF SCREEN 4 (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68: from 0 to 5 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) .5 (8 9)

PUMPING RATE (gal. per min.) 1 (11–15)

METHOD USED TO MEASURE PUMPING RATE Bucket + watch

WATER LEVEL (distance from land surface)

BEFORE PUMPING 15 (17–20) ft. 552

WHEN PUMPING 14 (22–25) ft.

TYPE OF PUMP USED (for test)

A air (27) P piston (27) T turbine (27)

C centrifugal (27) R rotary (27) O other (describe below) (27)

J jet (27) S submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) (31–35)

PUMP HORSE POWER (37–41)

PUMP COLUMN LENGTH (nearest ft.) (43–47)

CASING HEIGHT (circle appropriate box and enter casing height) + above / − below LAND SURFACE (48) +.5 (nearest foot) (50 51)

LATITUDE 39.268336

LONGITUDE 76.503114

(DEFAULT COORD. WGS 84)

NOTES:

MW-3

15

MDE/WMA/PER.071

C 1 07786 (MDE USE ONLY)

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 02

ST/CO USE ONLY
DATE Received MM DD YY 10 20 15 (8 13)

DATE WELL COMPLETED MM DD YY 9 15 2015 (15 20)

Depth of Well 21 (22 26) (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA-14-0200 (28 29 30 31 32 33 34 35 36 37)

OWNER Baltimore County (last name)

WELL SITE ADDRESS 1797 Merritt Blvd (last name) TOWN Dundalk

SUBDIVISION ____ SECTION 0011 LOT 0015

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Fine Brown silty sand	0	10	
Fine to med sand with some clay	10	14	
med sand & small cobbles	14	19	✓
sand & some clay	19	21	✓

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. M D 042

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y (44) no N (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM (45 46) BENTONITE CLAY BC (45 46)

NO. OF BAGS 2 NO. OF POUNDS 100

GALLONS OF WATER 14

DEPTH OF GROUT SEAL (to nearest foot) from 0 (48 TOP 52) ft. to 8 (54 BOTTOM 58) ft. (enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
PL (60 61)	0 (63 64)	11 (66 70)

EACH CASING — OTHER CASING (if used)

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below

ST STEEL, BR BRASS BRONZE, HO OPEN HOLE, PL PLASTIC, OT OTHER

C 2 (1 2)

EACH SCREEN — DEPTH (nearest ft.)

1 (8 9) 21 (11 15) (17 21)

2 (23 24) (26 30) (32 36)

3 (38 39) (41 45) (47 51)

SLOT SIZE 1 .016 2 ____ 3 ____

DIAMETER OF SCREEN 4 (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 — from 8 to 21 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING — LOG INDICATOR — OTHER DATA

C 3 (1 2)

PUMPING TEST
HOURS PUMPED (nearest hour) .5 (8 9)

PUMPING RATE (gal. per min.) 1 (11 15)

METHOD USED TO MEASURE PUMPING RATE Bucket & Watch

WATER LEVEL (distance from land surface)

BEFORE PUMPING 14 (17 20) ft.

WHEN PUMPING 15 (22 25) ft.

TYPE OF PUMP USED (for test)

A air (27), P piston (27), T turbine (27), C centrifugal (27), R rotary (27), O other (describe below) (27), J jet (27), S submersible (27)

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) (31 35)

PUMP HORSE POWER (37 41)

PUMP COLUMN LENGTH (nearest ft.) (43 47)

CASING HEIGHT (circle appropriate box and enter casing height)

+ (49) above, − (49) below — LAND SURFACE +3 (50 51) (nearest foot)

LATITUDE 39.268616
LONGITUDE 76.502666
(DEFAULT COORD. WGS 84)
NOTES:

MDE/WMA/PER.071

ATTACHMENT 5

Storm Drain Manways Inspection Photographs

Photograph 1 View of slight sheen on water located at the bottom of the storm drain manway located near the former piping run.	

Photograph 2 Additional view of water at the bottom of the storm drain manway located near the former piping run.	

Photograph 3 View of the bottom of the 2nd storm drain manway – first manway after the one located near the former piping run.	

Photograph 4 View of the storm drain looking downgradient from the #2 storm drain manway.	

Photograph 5 View of the #3 storm drain manway bottom.	

Photograph 6 View of the #4 storm drain manway bottom.	

Photograph 7 View of the storm drain looking downgradient from the #4 storm drain manway.	

Photograph 8 View of the storm drain outfall near Merritt Blvd.	