PHASE II ENVIRONMENTAL SITE ASSESSMENT

VDOT Suffolk Property
1700 N Main Street
Suffolk, VA 23434

Map No.: 25*45A & 26E*F*G*PT*J

For

WeldenField of Virginia, LLC
803 Cypress Chapel Road
Suffolk, VA 23434

By

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1.0 EXECUTIVE SUMMARY

This Phase II Environmental Site Assessment (ESA) has been completed for the former Virginia Department of Transportation (VDOT) Headquarters located at 1700 N Main Street in Suffolk, Virginia (Tax Account Numbers 253066200 & 253067100/ Map Numbers 25*45A & 26E*F*G*PT*J) (the "Subject Property"). The Subject Property is 94.84 acres, based on City of Suffolk Real Estate records, and contains numerous office and industrial buildings which comprise the former Hampton Roads District Office of VDOT. VDOT operations, such as vehicle maintenance, still occur on-site. Parking lots, drive aisles, wooded and wetland areas, grassy areas, and a portion of the Nansemond River also exist on-site.

1.1 Background

A Phase I ESA dated July 29, 2022 was performed by Bay Environmental, Inc. on behalf of WeldenField of Virginia, LLC at the above referenced property. The Phase I ESA is incorporated herein by reference and should be read in conjunction with this report. The Phase I ESA report revealed the following:

Recognized Environmental Conditions (RECs):

A recognized environmental condition is defined in ASTM Practice E 1527-21 at Section 1.1.1 as: "(1) the presence of *hazardous substances* or *petroleum products* in, on, or at the Subject Property due to a *release* to the *environment*; (2) the likely presence of *hazardous substances* or *petroleum products* in, on, or at the Subject Property due to a *release* or likely *release* to the *environment*; or (3) the presence of *hazardous substances* or *petroleum products* in, on, or at the Subject Property under conditions that pose a *material threat* of a future *release* to the *environment*. A *de minimis condition* is not a *recognized environmental condition*."

The following Recognized Environmental Conditions (RECs) were identified in connection with the Subject Property:

- Five former heating oil underground storage tank (UST) locations were identified through a review of a 2014 Phase I ESA performed on behalf of VDOT and provided to Bay Environmental by Land Planning Solutions. These include former heating oil USTs at Facility IDs 03, 24, 04/89, 06, and 25. The heating oil UST at Facility ID 03 was also identified through a review of building plans from 1965 that were provided by Land Planning Solutions. No documentation regarding these five heating oil USTs was identified; therefore, it is unknown if they had leaked. Heating oil USTs are typically single walled steel and are susceptible to rust over time. These five former heating oil USTs are considered RECs as they are likely to have caused a release to the environment.

- A dynamite storage building, with a lean-to labeled "Hazardous Materials Paint Chips" was observed (Facility ID 56). The building and paint chip area were empty at the time of the field reconnaissance; however, the former long-term storage of materials in this area is a REC.

- Geophysical surveys indicating the presence of buried materials have been performed in the grassy storage area on the central eastern portion of the Subject Property (previously known as the "Paint Storage Area and Surplus Storage Area") through previous environmental reports. The geophysical surveys of the area revealed some objects smaller than 55-gallon drums, a lot of objects believed to be 55-gallon drums, and many objects larger than 55-gallon drums. Volatile organic compound (VOC) groundwater contamination has been documented in this area.

- Several rusted drums, at least one of which has a black substance coming out of it, were identified in the woods in the northeastern portion of the Subject Property. The current/former contents of the drums are unknown.

- A wetland scientist from Bay Environmental identified an area of "black goo or tar" when hand augering near the eastern shoreline during the completion of the wetland delineation. The extent or source of this material is unknown.

- An asphalt patch and a cut off metal pipe were observed between Facility IDs 25 & 8, on the western side of the buildings. An asphalt patch and suspect cut off pipe may indicate the presence of a closed in place UST or the former location of a UST that was removed. It is noted that this location does not match any former UST areas described in Virginia Department of Environmental Quality (DEQ) records or other previous environmental reports on the Subject Property.

- "Pesticide storage area" labels were observed on the exterior of Facility ID 31 during Bay Environmental's site reconnaissance. The 2014 Phase I ESA identifies two additional buildings as pesticide storage areas (Facility ID 17, which has since been demolished, and Facility ID 33). The long-term storage of pesticides in these areas may have caused a release to the environment.

- The long-term storage and use of containerized materials containing petroleum products on the Subject Property (specifically in Facility IDs 21, 25, and 33) may have caused a release to the environment.

<u>Historical Recognized Environmental Conditions (HRECs):</u>

A Historical Recognized Condition is defined in ASTM Practice E 1527-21 at Section 3.2.39 as: "a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority… and meeting unrestricted use criteria… A historical recognized environmental condition is not a recognized environmental condition."

The following Historical Recognized Environmental Conditions were identified:

- A 550-gallon diesel or heating oil UST formerly existed near the northeastern corner of Facility ID 03. Pollution Complaint #1999-2329 was created in association with the closure of this UST. Low concentrations of petroleum were identified in on-site soils, but the Virginia Department of Environmental Quality (DEQ) closed the LUST case.

- A 1,000-gallon kerosene UST was removed from the ground at Facility ID 24. This UST is associated with PC #1999-2426, which has been closed by DEQ.

- Two 12,000-gallon USTs (one diesel and one gasoline) were removed from the ground and replaced with the current on-site 12,000-gallon USTs. The former USTs and associated former fuel pump island are considered a HREC because DEQ received the UST closure report and did not require any further investigation. These USTs were located east of Facility ID 60, in the same location as the current 12,000-gallon USTs.

- A 10,000-gallon #6 heating oil UST was removed from the ground near the northeastern side of Facility ID 25. Soil samples did not reveal concentrations above laboratory method detection limits. DEQ did not require further assessment associated with this UST.

- A 4,000-gallon diesel UST existed underneath what is now the "Former CNG Fueling Area", based on records provided by DEQ and the 2014 Phase I ESA. This UST was removed from the ground and DEQ did not require any further assessment.

- An 8,000-gallon toluene UST was removed from the ground at Facility ID 55. Low levels of toluene and total xylenes were identified in on-site soil; however, DEQ did not require further assessment.

- Diesel and gasoline aboveground and underground storage tanks formerly existed in the Bulk Fuel Storage Area in the southeastern portion of the Subject Property. Five USTs have been removed from the ground in this area (two 30,000-gallon & three 10,000-gallon). Three Pollution Compliant Numbers are associated with this area. One was created when very low concentrations of petroleum were identified during the removal of the 30,000-gallon USTs in September 2021 (PC #2022-5070). The second was created when a release occurred from a bulk fuel dispenser (PC #1999-2247). The release was cleaned up and low levels of petroleum were identified in the on-site soils. The third was only identified through review of a previous Phase I ESA and was created when there was a spill in the vicinity of the old ASTs at this area (PC #1994-3266). Documents related to all three of these PC numbers, and the UST closure reports have been reviewed by DEQ and DEQ has not required any further action.

No Controlled Recognized Environmental Conditions have been identified in connection with the Property.

1.2 Findings and Conclusions

The Phase II ESA consisted of conducting soil and/or groundwater sampling in the on-site areas most likely to be impacted by the RECs and HRECs discussed in Section 1.1, above. Samples were laboratory analyzed for total petroleum hydrocarbons diesel range organics (TPH DRO); total petroleum hydrocarbons gasoline range organics (TPH GRO); benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether (MTBE), naphthalene (BTEXMN); volatile organic compounds (VOCs); semi volatile organic compounds (SVOCs); pesticides; herbicides; and/or RCRA metals (arsenic, barium, cadmium, chromium [hexavalent and trivalent], lead, mercury, selenium, and silver) depending on the constituents of concern from each finding in the Phase I ESA.

Sampling revealed low concentrations of diesel and gasoline in on-site soil and groundwater in the Bulk Fuel Storage Area, specifically the eastern and southern portions of the area (S-2 through S-6). MTBE was also identified in on-site groundwater at one sample location in this area. The concentration of MTBE in this area was well below the US Environmental Protection Agency's (EPA's) tap water screening level.

Concentrations of petroleum constituents were also identified in the following areas:

- In the soil near the northeast corner of Facility ID 24 (S-7) (low levels of diesel).
- In the soil near the former pump island near Facility ID 21 (S-9) (low levels of diesel and gasoline).
- In the groundwater east of the former 12,000-gallon USTs near Facility IDs 25 & 60 (S-10) (low levels of diesel and MTBE). Concentrations of MTBE were well below the US EPA tap water screening level.
- In the soil and groundwater outside the northern wall of Facility ID 03 (S-19) (diesel). The concentration of diesel in the soil at this location was well above the soil saturation value; the value at which it can be a source of free product.
- In the soil north of Facility ID 25 (S-22) (low levels of diesel).

Concentrations of VOCs were identified in the sample near the southwestern corner of Facility ID 55 (S-8). Naphthalene was identified in on-site soil above the US EPA residential screening level. Toluene was detected in groundwater below the tap water screening level.

VOCs and SVOCs were identified in on-site soil and groundwater in the "Grassy Storage Area" area where there were reports of historical VOC contamination and suspect buried drums (S-17 & S-18). Toluene, ethylbenzene, and naphthalene were detected above tap water screening levels in groundwater and naphthalene was detected in soil above residential screening levels.

Concentrations of metals were detected in on-site soil west of Facility ID 56 (S-15). Concentrations were below residential screening levels. Please note that groundwater was not sampled at this location.

Concentrations of metals and pesticides were detected in the area where drums and other containerized materials have been dumped down the hill into the woods (S-26 & S-27). Concentrations of pesticides are below EPA residential screening levels. Concentrations of

arsenic are above residential screening levels but below published background concentrations. Please note that groundwater was not sampled at this location.

Other constituents of concern were below laboratory detection limits in samples in which they were analyzed.

In general, concentrations in soil are similar to data from historical reports obtained during the completion of the Phase I ESA. However, a few areas were sampled during this Phase II ESA that had not previously been sampled. The most significant finding in soil is the high concentration of diesel range organics near the northern side of Facility ID 03 (Sample S-19), the approximate location of a former heating oil UST. Other concentrations of petroleum constituents are low enough that it is unlikely DEQ will require further assessment.

Historically, only limited groundwater sampling had been conducted; therefore, most of the groundwater data is new information. In general, concentrations are low and are unlikely to warrant further assessment. However, concentrations in the "Grassy Storage Area" (S-17 & S-18) are well above screening values (note that VOCs and SVOCs in groundwater are compared to drinking water standards). Sampling was conducted in this area in the 1990s; however, the detected constituents and concentrations are different than historical data.

This Phase II ESA should be submitted to DEQ's Tidewater Regional Office, Petroleum Program for their review. This recommendation is specific to the petroleum contamination identified. Should you want further assurances regarding the VOC, SVOC, pesticides, or metals contamination, DEQ's Voluntary Remediation Program (VRP) can be approached.

2.0 INTRODUCTION

2.1 Purpose/Scope of Services

The purpose of this Phase II ESA was to determine if the RECs and HRECs in the 2022 Phase I ESA (described above) have negatively impacted the above referenced Subject Property in Suffolk, Virginia.

2.2 Site Description

The 1919 and 1949 topographic maps depict one or two structures and an unimproved road on-site. The more recent maps and aerial photographs (starting with the 1950 aerial photograph) depict the VDOT Hampton Roads District Office. The facility has expanded and changed over time.

3.0 ENVIRONMENTAL SETTING

3.1 Topographic Map

A review of the *Chuckatuck, Virginia* topographic map (USGS, 2019) revealed that the Subject Property has an approximate elevation ranging from 0 to 40 feet above sea level. The map was also interpreted to show that the apparent groundwater flow is likely to the east towards the Nansemond River.

3.2 Geologic Map

The Subject Property is located within the Coastal Plain Physiographic Province of Virginia. A review of the *Geologic Map and Generalized Cross Sections of the Coastal Plain and Adjacent Parts of the Piedmont, Virginia* (U.S. Geological Survey, 1989) revealed that the Subject Property has been mapped as Alluvium, a fine to coarse gravelly sand and sandy gravel, silt, and clay, light to medium gray and yellowish gray.

3.3 Groundwater Map

A review of the *Groundwater Map of Virginia* (Virginia Water Control Board, 1985) revealed that the Subject Property lies within the Coastal Plain Ground Water Area. This area is composed of unconsolidated sediments of Cretaceous to recent age overlying a bedrock basement. The sediments thicken eastward from a featheredge at the Fall Zone to 7,000 feet along the coastline. Sediments dip gently eastward and are subdivided into four major aquifers from the land surface downward. The Aquifers are separated by confining beds, which restrict but do not prevent vertical flow of groundwater.

4.0 METHODOLOGY

4.1 Preparation & Mobilization

Prior to on-site activities, Bay Environmental, Inc. pre-marked proposed boring locations with white stakes, white paint, and/or white flags and coordinated with Miss Utility to have underground utilities located. Private utilities were also marked. Utility locations and other surficial features influenced sample locations.

On October 17, 18, 24, 25, and 27, 2022, twenty-nine borings were conducted on the Subject Property. Twenty-five of them (S-1 through S-14, S-17 through S-25, & S-28 through S-29) were completed using a direct push hydraulic Geoprobe sampler. The other four (S-15, S-16, S-26, & S-27) were collected utilizing a hand auger.

Engineering Consulting Services Mid-Atlantic, LLC (ECS) personnel were contracted by VDOT to be on-site throughout the sampling activities. They observed the sampling activities and took split samples from some of the sample locations at VDOT's request.

4.2 Sample Descriptions (Location and Analyses)

The table below details boring locations and laboratory analyses and Figures 2 - 8 (Appendix A) depict boring/sample locations.

Phase I ESA Findings and Corresponding Sample Numbers and Lab Analyses				
Sample Number	Finding from Phase I ESA	VDOT Facility ID	Soil Sample Analysis	Groundwater Sample Analysis
S-1	Two 30,000-gallon USTs removed in 2021 associated with PC # 2022-5070	bulk fuel storage area	TPH DRO TPH GRO BTEXMN	TPH DRO TPH GRO BTEXMN
S-2	Two 30,000-gallon USTs removed in 2021 associated with PC # 2022-5070	bulk fuel storage area	TPH DRO TPH GRO	TPH DRO TPH GRO
S-3	Release of diesel fuel from bulk fuel dispenser associated with PC # 1999-2247	bulk fuel storage area	TPH DRO	TPH DRO
S-4	Spillage in the vicinity of the old ASTs associated with PC # 1994-3266 (only found through EEE report)	bulk fuel storage area	TPH DRO TPH GRO	TPH DRO TPH GRO
S-5	Former 10,000-gallon USTs removed from the ground	bulk fuel storage area	TPH DRO TPH GRO	TPH DRO TPH GRO
S-6	Former 10,000-gallon USTs removed from the ground	bulk fuel storage area	TPH DRO TPH GRO BTEXMN	TPH DRO TPH GRO BTEXMN
S-7	Former 1,000-gallon kerosene UST associated with PC # 1999-2426 - northeast corner of the building	24	TPH DRO	TPH DRO
S-8	Former 8,000-gallon toluene UST - southwest corner of building	55	VOCs	VOCs
S-9	Former pump island location & central haz waste accumulation area	25 & 21	TPH DRO TPH GRO	TPH DRO TPH GRO
S-10	Two 12,000-gallon USTs removed from ground	25 & 60	TPH DRO TPH GRO BTEXMN	TPH DRO TPH GRO BTEXMN
S-11	Two 12,000-gallon USTs removed from ground	25 & 60	TPH DRO TPH GRO	TPH DRO TPH GRO
S-12	Former 4,000-gallon diesel UST - under area currently known as "former CNG Fueling Area"	25	TPH DRO	TPH DRO
S-13	Former heating oil UST outside in grassy area northwest corner of the building (interview from 2014 Phase I ESA)	24	TPH DRO	TPH DRO
S-14	Pesticide storage area & petroleum storage area	33	Pesticides TPH DRO TPH GRO	Pesticides TPH DRO TPH GRO

Phase I ESA Findings and Corresponding Sample Numbers and Lab Analyses				
Sample Number	Finding from Phase I ESA	VDOT Facility ID	Soil Sample Analysis	Groundwater Sample Analysis
S-15	Explosive and paint chip storage	56	RCRA Metals SVOCs	N/A
S-16	"Black goo" identified during wetland delineation at wetland flag # 157	None	SVOCs	N/A
S-17	Central eastern portion of property - VOC contamination in groundwater and suspect buried drums found through previous reports ("Grassy Storage Area")	None	VOCs SVOCs	VOCs SVOCs
S-18	Central eastern portion of property - VOC contamination in groundwater and suspect buried drums found through previous reports ("Grassy Storage Area")	None	VOCs SVOCs	VOCs SVOCs
S-19	Former heating oil UST outside northern wall (interview from 2014 Phase I ESA & building plans)	03	TPH DRO	TPH DRO
S-20	Former 550-gallon diesel UST associated with PC # 1999-2329 eastern side of building at northern end	03	TPH DRO	TPH DRO
S-21	Asphalt patch with cut off metal pipe between buildings (identified during Bay Env site visit)	28 & 08	TPH DRO TPH GRO	TPH DRO TPH GRO
S-22	Former 10,000-gallon #6 oil UST removed from the ground & petroleum storage indoors - northern side of building	25	TPH DRO TPH GRO	TPH DRO TPH GRO
S-23	Possible former heating oil UST under northeastern corner of bld (interview from 2014 Phase I ESA)	25	TPH DRO	TPH DRO
S-24	Former heating oil UST where chiller plant is now located (interview from 2014 Phase I ESA)	06	TPH DRO	TPH DRO
S-25	Former heating oil UST in small grassy area between buildings (interview from 2014 Phase I ESA)	04 & 89	TPH DRO	TPH DRO
S-26	Rusted drums on side of hill in woods	None	VOCs SVOCs RCRA Metals Pesticides Herbicides	N/A

Phase I ESA Findings and Corresponding Sample Numbers and Lab Analyses				
Sample Number	Finding from Phase I ESA	VDOT Facility ID	Soil Sample Analysis	Groundwater Sample Analysis
S-27	Rusted drums on side of hill in woods	None	VOCs SVOCs RCRA Metals Pesticides Herbicides	N/A
S-28	Pesticide storage areas (facility ID 31 is existing, facility ID 17 has been demolished)	31	Pesticides	Pesticides
S-29	Pesticide storage areas (facility ID 31 is existing, facility ID 17 has been demolished)	17	Pesticides	Pesticides

TPH DRO = total petroleum hydrocarbons diesel range organics
TPH GRO = total petroleum hydrocarbons gasoline range organics
BTEXMN = benzene, toluene, ethylbenzene, methyl tert butyl ether, naphthalene
VOCs = volatile organic compounds
SVOCs = semi volatile organic compounds
RCRA metals = arsenic, barium, cadmium, chromium (trivalent & hexavalent), lead, mercury, selenium, & silver
N/A = not applicable (sample was not collected/analyzed)

4.3 Sample Descriptions (Boring Logs)

Inset Map Area 1: Facility IDs 16, 28, & 46

No samples were proposed, and no samples were collected, in this Inset Map Area.

Inset Map Area 2: Bulk Fuel Storage Area

Boring S-1 was conducted in the bulk fuel storage area immediately west of two 30,000-gallon USTs that were removed in 2021 associated with PC # 2022-5070. The sediments in S-1 consisted of: asphalt (0-0.25 ft bgs), brown silt with some pebbles (0.25-1 ft bgs), light gray fine sand with orange mottles (1-7 ft bgs), gray clay (7-7.5 ft bgs), gray clayey sand with orange mottles (7.5-10 ft bgs), orange sand (10-11 ft bgs), and gray sand (11-12 ft bgs). The water table was encountered at approximately 8.5 feet. The soil sample was collected from approximately 7-8.5 feet bgs, and the groundwater sample was collected from approximately 8-12 feet bgs. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-2 was conducted in the bulk fuel storage area immediately east of two 30,000-gallon USTs that were removed in 2021 associated with PC # 2022-5070. The sediments in S-2 consisted of: asphalt (0-0.25 ft bgs), crush and run (0.25-0.75 ft bgs), gray silt with some clay (0.75-3.5 ft bgs), gravel (3.5-6 ft bgs), beige and orange sand (6-11 ft bgs), and gray sand (11-12 ft bgs). The water table was encountered at approximately 8 feet. The soil sample was collected from approximately 6-8 feet bgs, and the groundwater sample was collected from approximately 8-12 feet bgs. A slight sheen was observed during the collection of the groundwater sample.

Boring S-3 was conducted in the bulk fuel storage area near the historical release of diesel fuel from bulk fuel dispenser associated with PC # 1999-2247. The sediments in S-3 consisted of: asphalt (0-0.25 ft bgs), crush and run (0.25-1 ft bgs), light gray fine sand (1-3 ft bgs), asphalt (3-3.25 ft bgs), light gray fine sand (3.25-7.5 ft bgs), beige and orange sand (7.5-9 ft bgs), light gray sand (9-10 ft bgs), and beige coarse sand (10-12 ft bgs). The water table was encountered at approximately 5 feet. The soil sample was collected from approximately 4.5-5 feet bgs, and the groundwater sample was collected from approximately 5-9 feet bgs. Staining and an odor were detected in the soil from 4.5-5 ft bgs.

Boring S-4 was conducted in the bulk fuel storage area near historical spillage from the old ASTs associated with PC # 1994-3266. The sediments in S-4 consisted of: asphalt (0-0.25 ft bgs), fill material/crush and run (0.25-1 ft bgs), light gray sand (1-2 ft bgs), beige sandy clay (2-3.5 ft bgs), light gray sand (3.5-10 ft bgs), light gray clay (10-11 ft bgs), and beige sandy clay (11-12 ft bgs). The water table was encountered at approximately 5.5 feet. The soil sample was collected from approximately 5-6 feet bgs, and the groundwater sample was collected from approximately 5-9 feet bgs. Staining and odors were detected in the soil sample from 7.5-10 ft bgs, and an odor was detected in the groundwater sample.

Boring S-5 was conducted in the bulk fuel storage area west of former 10,000-gallon USTs that were removed from the ground. The sediments in S-5 consisted of: topsoil (0-0.5 ft bgs), gravel (0.5-0.75 ft bgs), beige, orange, and gray fine sand (0.75-2 ft bgs), gray clay with orange mottles (2-8 ft bgs), gray clayey sand (8-10 ft bgs) and gray sand with orange mottles (10-12 ft bgs). The water table was encountered at approximately 6 feet. The soil sample was collected from approximately 5-6 feet bgs, and the groundwater sample was collected from approximately 7-11 feet bgs. An odor was detected in the soil at approximately 8 ft bgs.

Boring S-6 was conducted in the bulk fuel storage area east of former 10,000-gallon USTs that were removed from the ground. The sediments in S-6 consisted of: silt with gravel (0-1 ft bgs), beige/orange sand (1-2 ft bgs), beige/orange silty sand (2-3 ft bgs), gray silty clay (3-4 ft bgs), light gray sand with silt (4-7 ft bgs), orange sand (7-8 ft bgs), light gray coarse sand (8-10 ft bgs), beige/orange clayey sand (10-11.5 ft bgs), and orange sand (11.5-12 ft bgs). The water table was encountered at approximately 4.8 feet. The soil sample was collected from approximately 3.5-5 feet bgs, and the groundwater sample was collected from approximately 5-9 feet bgs. A slight odor was detected in the soil sample from 4-5 ft bgs.

<u>Inset Map Area 3: Facility IDs 21, 24, 25, 55 & 60</u>

Boring S-7 was conducted near Facility ID 24, in the general vicinity of a former 1,000-gallon kerosene UST associated with PC # 1999-2426 near the northeast corner of the building. The sediments in S-7 consisted of: asphalt (0-0.25 ft bgs), crush and run (0.25-1 ft bgs), dark gray silt (1-2 ft bgs), orange silty clay (2-3 ft bgs), orange clay (3-5 ft bgs), light gray clay with orange mottles (5-9 ft bgs), orange clay (9-10 ft bgs), light gray clay with orange mottles (10-18 ft bgs), light gray sand with orange mottles (18-20.5 ft bgs), light gray clay with orange mottles (20.5-21.5 ft bgs), light gray and orange sandy clay (21.5-22 ft bgs), and light gray sand (22-23 ft bgs). The water table was encountered at approximately 19 feet. The soil sample was collected from approximately 18.5-19 feet bgs, and the groundwater sample was collected from 22-26 feet bgs due to the presence of clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-8 was conducted near Facility ID 55, in the general vicinity of a former 8,000-gallon toluene UST near the southwest corner of building. The sediments in S-8 consisted of: topsoil (0-0.5 ft bgs), orange sandy clay (0.5-2 ft bgs), orange clay (2-3 ft bgs), gray sandy clay with orange mottles (3-4 ft bgs), orange clay (4-7 ft bgs), light gray clay with orange mottles (7-18 ft bgs), medium gray clay (18-19 ft bgs), beige, gray, and orange fine sand (19-20.5 ft bgs), medium gray clay (20.5-21.5 ft bgs), and gray fine sand (21.5-23 ft bgs). The water table was encountered at approximately 20 feet. The soil sample was collected from approximately 19-20 feet bgs, and the groundwater sample was collected from 19-23 feet bgs. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-9 was conducted near the former pump island location and central hazardous waste accumulation area near Facility IDs 25 & 21. The sediments in S-9 consisted of: concrete (0-0.5 ft bgs), crush and run (0.5-1 ft bgs), orange and beige sand (1-7 ft bgs), dark gray clay (7-12 ft bgs), gray clay with brown mottles (12-15 ft bgs), gray and brown sand (15-16 ft bgs), gray silty clay (16-17 ft bgs), gray and orange sandy clay (17-19 ft bgs), dark gray clay (19-19.5 ft bgs), orange sand (19.5-20 ft bgs), gray sandy clay (20-20.5 ft bgs), and orange medium sand (20.5-22 ft bgs). The water table was encountered at approximately 16.5 feet. The soil sample was collected from approximately 12-16 feet bgs, and the groundwater sample was collected from 18-22 feet bgs because of the clay at the water table interface. An odor was detected in the soil from 12-19.5 ft bgs; however, no staining or sheens were observed during the collection of these samples.

Boring S-10 was conducted near Facility IDs 25 & 60, east of two 12,000-gallon USTs that were removed from ground. This sample was also near the currently in use 12,000-gallon USTs and was collected outside the fence, in the parking lot. The sediments in S-10 consisted of: asphalt (0-0.25 ft bgs), beige sand (0.25-1 ft bgs), gray and orange sandy clay (1-7 ft bgs), light gray clay with orange mottles (7-8.25 ft bgs), gray and orange sandy clay (8.25-9 ft bgs), light gray clay with orange mottles (9-13.5 ft bgs), gray and orange sandy clay (13.5-14 ft bgs), light gray clay with orange mottles (14-15.5 ft bgs), gray and orange sand (15.5-17.5 ft bgs), beige clay (17.5-18 ft bgs), and light gray sand with orange mottles (18-20 ft bgs). The water table was encountered at approximately 17.5 feet. The soil sample was collected from approximately 16-17.5 feet bgs, and the groundwater sample was collected from 17-21 feet bgs. Obtaining the groundwater sample was very difficult at this sample location. A temporary 1" diameter PVC well was placed into the boring and was left overnight. There was still an insufficient quantity of water to fill all the sample jars; however, enough water was collected for the laboratory to analyze the samples. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-11 was conducted near Facility IDs 25 & 60, west of two 12,000-gallon USTs that were removed from ground. This sample was also near the currently in use 12,000-gallon USTs. The sediments in S-11 consisted of: topsoil (0-0.5 ft bgs), light brown fine sand (0.5-1 ft bgs), light brown sandy clay (1-5.5 ft bgs), gray clay with orange mottles (5.5-15 ft bgs), gray sand with orange mottles (15-16.25 ft bgs), beige clay (16.25-18 ft bgs), and gray sand with orange mottles (18-21 ft bgs). The water table was encountered at approximately 17.5 feet. The soil sample was collected from approximately 17-17.5 feet bgs, and the groundwater sample was collected from 17-21 feet bgs. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-12 was conducted near Facility ID 25, in the general vicinity of a former 4,000-gallon diesel UST – immediately northeast of the area currently known as "former CNG Fueling Area". The sediments in S-12 consisted of: asphalt (0-0.25 ft bgs), beige sand (0.25-2 ft bgs), beige sandy clay (2-3 ft bgs), beige sand (3-5.5 ft bgs), light gray clay with orange mottles (5.5-10 ft bgs), orange clay (10-12 ft bgs), gray clay with orange mottles (12-13.5 ft bgs), gray sandy clay with orange mottles (13.5-15 ft bgs), orange sand (15-16 ft bgs), beige clay (16-16.5 ft bgs), light gray and orange sand (16.5-18 ft bgs), gray clay (18-18.5 ft bgs), and gray and orange fine sand (18.5-20 ft bgs). The water table was encountered at approximately 15.5 feet. The soil sample was collected from approximately 15-15.5 feet bgs, and the groundwater sample was collected from 17-21 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-13 was conducted near Facility ID 24, in the general vicinity of a former heating oil UST, outside in the grassy area near the northwest corner of the building. The sediments in S-13 consisted of: topsoil (0-0.5 ft bgs), light brown fine sand (0.5-1 ft bgs), orange clay (1-3.75 ft bgs), orange and gray fine sand (3.75-4.25 ft bgs), light gray clay with orange mottles (4.25-17 ft bgs), sandy gray clay (17-18 ft bgs), gray clay (18-18.5 ft bgs), orange and gray fine sand (18.5-19 ft bgs), light gray clay (19-20 ft bgs), orange sand (20-21 ft bgs), and light gray and orange sand (21-23 ft bgs). The water table was encountered at approximately 19.8 feet. The soil sample was collected from approximately 19-19.5 feet bgs, and the groundwater sample was collected from 19-23 feet bgs. No odors, staining, or sheens were observed during the collection of these samples.

Inset Map Area 4: Facility IDs 33 & 56 & Central Eastern Portion of the Property & "Black Goo"

Boring S-14 was conducted near Facility ID 33, east of former pesticide storage and petroleum storage areas. The sediments in S-14 consisted of: topsoil (0-0.25 ft bgs), crush and run (0.25-1 ft bgs), gray silt (1-2 ft bgs), gray fine sand (2-3 ft bgs), gray clay with orange mottles (3-18 ft bgs), gray fine sand with orange mottles (18-20.5 ft bgs), gray clay with orange mottles (20.5-21 ft bgs), gray and orange clay (21-23 ft bgs), and dark gray clay (23-24 ft bgs). The water table was encountered at approximately 16.5 feet. The soil sample was collected from approximately 15.5-16.5 feet bgs. A groundwater sample was not able to be collected from this boring location. There was no water, despite multiple attempts, adjusting the depth of the screened interval, etc. No odors, staining, or sheens were observed during the collection of this sample.

Boring S-15 was a surficial composite sample conducted west of Facility ID 56, the former explosive and paint chip storage area. The sediments in S-15 consisted of tan fine sand. The soil sample was collected from 0.5-1 ft bgs. The composite sample was collected by taking discrete samples from 4-5 different locations immediately west of the building (near the lean to) and mixing the sediments on a plastic bag prior to placing representative sediments in the sample jar. No odors, staining, or sheens were observed during the collection of this sample.

Boring S-16 was a surficial sample of the "black goo" identified during the wetland delineation at wetland flag #157, near the shoreline east of Facility IDs 33 & 50. A sample was collected of the "black goo" which was just below the ground surface at this location. No odors, staining, or sheens were observed during the collection of this sample.

Boring S-17 was conducted in the "Grassy Storage Area" in the central eastern portion of the Subject Property in the general location of VOC contamination in groundwater and suspect buried drums found through previous reports. This sample was collected in the western portion of the area because S-18 was moved to the central portion of the area. The sediments in S-17 consisted of: topsoil (0-0.25 ft bgs), silty fill material with gravel and asphalt (0.25-1.5 ft bgs), light gray clay with orange mottles (1.5-15 ft bgs), light gray and orange sand (15-16.5 ft bgs), light gray clay with orange mottles (16.5-18 ft bgs), light gray and beige sand (18-19.5 ft bgs), and light gray clay with staining (19.5-20 ft bgs). The water table was encountered at approximately 17.5 feet. The soil sample was collected from approximately 16.5-17.5 feet bgs, and the groundwater sample was collected from 16-20 feet bgs. A slight odor was detected in the soil from 16-20 ft bgs, and a sheen and odor were noted in the groundwater sample.

Boring S-18 was conducted in the "Grassy Storage Area" in the central eastern portion of the Subject Property in the general location of VOC contamination in groundwater and suspect buried drums found through previous reports. This sample was collected in the central portion of the area due to the truck not being able to drive over the soft, wet ground to get to the eastern side of the area. The sediments in S-18 consisted of: topsoil (0-0.25 ft bgs), silty fill material with gravel and asphalt (0.25-6 ft bgs), wood with white powder (6-6.25 ft bgs), dark gray clay (6.25-9 ft bgs), silty fill material with asphalt and gravel (9-10 ft bgs), dark gray clay (10-11 ft bgs), wood (11-11.25 ft bgs), dark gray clay (11.25-13 ft bgs), gray sandy clay (13-15 ft bgs), beige and gray sand with possible staining (15-16 ft bgs), gray sandy clay (16-19 ft bgs), gray clay (19-21 ft bgs), gray and beige sandy clay (21-23 ft bgs), dark gray sandy clay (23-24.5 ft bgs), gray sandy clay (24.5-26 ft bgs), dark gray clay (26-27 ft bgs), and dark gray sand (27-28 ft bgs). The water table was encountered at approximately 19 feet. The soil sample was collected from approximately 17-19 feet bgs, and the groundwater sample was collected from 23-27 feet bgs due to the presence of clay at the water table interface. An odor was detected in the soil from 6-6.25 and 11-24.5 ft bgs, and a sheen was noted on the groundwater sample.

Inset Map Area 5: Facility IDs 03, 04, 06, 08, 25, & 89

Boring S-19 was conducted adjacent to the north side of Facility ID 03, in the approximate location of a former heating oil UST. The sediments in S-19 consisted of: topsoil (0-0.5 ft bgs), tan sand (0.5-1 ft bgs), asphalt (1-1.25 ft bgs), orange sandy clay (1.25-7 ft bgs), gray clay with staining and odors (7-7.5 ft bgs), dark gray coarse sand with staining and odors (7.5-8.5 ft bgs), gray clay with orange mottles and odors (8.5-13 ft bgs), dark gray coarse sand with staining and odors (13-14 ft bgs), gray clay with staining and odors (14-15 ft bgs), gray clay with orange mottles and odors (15-16 ft bgs), gray sand with orange mottles (16-18 ft bgs), and gray sandy clay with staining and odors (18-20 ft bgs). The water table was encountered at approximately 14.5 feet. The soil sample was collected from approximately 13-14 feet bgs, and the groundwater sample was collected from approximately 15-19 feet bgs. A slight sheen and odor were detected in the groundwater sample.

Boring S-20 was conducted near the northern end of the east side of Facility ID 03. This is the approximate location of a former 550-gallon diesel UST associated with PC # 1999-2329. The sediments in S-20 consisted of: gravel and crush and run (0-0.5 ft bgs), light gray sandy clay (0.5-3 ft bgs), beige clay (3-4 ft bgs), gray clayey sand with orange mottles (4-8 ft bgs), light

gray clay with orange mottles (8-12 ft bgs), gray sandy clay with orange mottles (12-13 ft bgs), light gray clay with orange mottles (13-17 ft bgs), gray sandy clay with orange mottles (17-18 ft bgs), and gray fine sand (18-20 ft bgs). The water table was encountered at approximately 12.6 feet. The soil sample was collected from approximately 11.75-12 feet bgs, and the groundwater sample was collected from approximately 16-20 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-21 was conducted near the asphalt patch with the cut off pipe between Facility IDs 08 & 25. The sediments in S-21 consisted of: gravel (0-0.5 ft bgs), tan sandy clay (0.5-1 ft bgs), gray clay with orange mottles (1-5 ft bgs), gray sandy clay with orange mottles (5-7 ft bgs), gray clay with orange mottles (7-8 ft bgs), gray sandy clay with orange mottles (8-10 ft bgs), gray clay with orange mottles (10-18.5 ft bgs), gray sand with orange mottles (18.5-19 ft bgs), gray sandy clay with orange mottles (19-20 ft bgs), gray clay with orange mottles (20-21.5 ft bgs), gray sand with orange mottles (21.5-22 ft bgs), gray clay with orange mottles (22-24.5 ft bgs), and gray sand with orange mottles (24.5-25 ft bgs). The water table was encountered at approximately 19 feet. The soil sample was collected from approximately 18.5-19 feet bgs, and the groundwater sample was collected from 20-24 feet bgs. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-22 was conducted north of Facility ID 25, in the general vicinity of a former 10,000-gallon #6 oil UST removed from the ground and petroleum storage inside the building. The sediments in S-22 consisted of: asphalt (0-0.25 ft bgs), dark gray clayey silt (0.25-2 ft bgs), light gray clayey silt with orange mottles (2-4 ft bgs), gray silty clay (4-5 ft bgs), orange/beige silty clay (5-6 ft bgs), light gray silty clay with orange mottles (6-8 ft bgs), light gray clay with orange mottles (8-12.25 ft bgs), gray sandy clay (12.25-13 ft bgs), light gray clay with orange mottles (13-19 ft bgs) and beige sand (19-20 ft bgs). The water table was encountered at approximately 13 feet. The soil sample was collected from approximately 12-13 feet bgs, and the groundwater sample was collected from 18-22 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-23 was conducted near the northeast corner of Facility ID 25, in the general vicinity of a possible former heating oil UST. The sediments in S-23 consisted of: asphalt (0-0.25 ft bgs), brown silt (0.25-1 ft bgs), brown silty clay (1-2 ft bgs), orange clay (2-3.5 ft bgs), gray silty clay with orange mottles (3.5-5 ft bgs), gray clay with orange mottles (5-14 ft bgs), gray sandy clay with orange mottles (14-15 ft bgs), gray clay with orange mottles (15-18 ft bgs), and light gray and orange sand (18-20 ft bgs). The water table was encountered at approximately 16.25 feet. The soil sample was collected from approximately 15-16 feet bgs, and the groundwater sample was collected from 16-20 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-24 was conducted near the chiller plant at Facility ID 06. This is the approximate location of a former heating oil UST. The sediments in S-24 consisted of: topsoil (0-0.5 ft bgs), light brown sand (0.5-2 ft bgs), light brown clay (2-6 ft bgs), light gray clay with orange mottles (6-14 ft bgs), light gray sandy clay with orange mottles (14-18 ft bgs), tan sand (18-19 ft bgs), light gray sand (19-20 ft bgs), gray clay (20-22 ft bgs), and light gray fine sand (22-24 ft bgs). The water table was encountered at approximately 11.5 feet. The soil sample was collected

from approximately 11-11.5 feet bgs, and the groundwater sample was collected from approximately 16-20 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-25 was conducted near Facility ID 04, in the general vicinity of a former heating oil UST. The sediments in S-25 consisted of: topsoil (0-0.5 ft bgs), tan clay (0.5-3 ft bgs), light gray clay with orange mottles (3-17.5 ft bgs), and light gray fine sand with orange mottles (17.5-20 ft bgs). The water table was encountered at approximately 12.3 feet. The soil sample was collected from approximately 11.5-12 feet bgs, and the groundwater sample was collected from 17-21 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Inset Map Area 6: Facility IDs 31 & Near Drums on Side of Hill & Former Facility ID 17

Boring S-26 was a surficial composite sample collected from the western portion of the rusted drums on the side of the hill in the woods. The sediments in S-26 consisted of tan fine sand. The sample was collected from 0.5-1 ft bgs. The composite sample was collected by taking discrete samples from 4-5 different locations and mixing the sediments on a plastic bag prior to placing representative sediments in the sample jar. No odors, staining, or sheens were observed during the collection of this sample.

Boring S-27 was a surficial composite sample collected from the eastern portion of the rusted drums on the side of the hill in the woods. The sediments in S-26 consisted of tan fine sand. The sample was collected from 0.5-1 ft bgs. The composite sample was collected by taking discrete samples from 4-5 different locations and mixing the sediments on a plastic bag prior to placing representative sediments in the sample jar. No odors, staining, or sheens were observed during the collection of this sample.

Boring S-28 was conducted southeast of Facility ID 31, in the general vicinity of a former pesticide storage area. The sediments in S-28 consisted of: gravel (0-0.25 ft bgs), beige/orange sand (0.25-1 ft bgs), gray silty clay (1-3 ft bgs), light gray clay with orange mottles (3-4.5 ft bgs), beige sand (4.5-5 ft bgs), light gray clay with orange mottles (5-8 ft bgs), light gray silty clay with orange mottles (8-9 ft bgs), beige sand (10-10.25 ft bgs), light gray clay with orange mottles (10.25-11 ft bgs), gray silty clay (11-11.5 ft bgs), light gray clay with orange mottles (11.5-14 ft bgs), beige sand (14-14.25 ft bgs), light gray clay with orange mottles (14.25-18 ft bgs), and light gray sand with orange mottles (18-20 ft bgs). The water table was encountered at approximately 13.75 feet. The soil sample was collected from approximately 13-14 feet bgs, and the groundwater sample was collected from 18-22 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Boring S-29 was conducted near former Facility ID 17, in the general vicinity of a former pesticide storage area. The sediments in S-29 consisted of: topsoil (0-0.25 ft bgs), gray clay with orange mottles (0.25-5 ft bgs), brown sandy clay (5-6 ft bgs), gray clay with orange mottles (6-8 ft bgs), brown sandy clay (8-9.5 ft bgs), gray clay with orange mottles (9.5-13 ft bgs), brown sandy clay (13-15 ft bgs), gray clay with orange mottles (15-16 ft bgs), orange sand (16-18 ft bgs), orange clay (18-18.5 ft bgs), orange clayey sand (18.5-20 ft bgs). The water table was encountered at approximately 9.5 feet. The soil sample was collected from

approximately 9-9.5 feet bgs, and the groundwater sample was collected from 15-19 feet bgs because of the clay at the water table interface. No odors, staining, or sheens were observed during the collection of these samples.

Soil and groundwater samples were immediately placed on ice and shipped to Eurofins Test America in Pensacola, Florida under standard chain of custody procedures.

5.0 LABORATORY RESULTS

5.1 Soil

5.1.1 Regulatory Comparisons

Petroleum

DEQ issued a Storage Tank Program Technical Manual (Fourth Edition, May 2011), which includes reporting standards for soil. In the event that levels of TPH are detected above the laboratory method detection limit, and the results are not associated with a tank closure, the findings are reportable to the Virginia DEQ.

Soil saturation values are published in the Storage Tank Technical Manual (Fourth Edition, May 2011). Petroleum saturated soil is the concentration at which free product will continue to accumulate on the water table. Soil saturation values differ between petroleum products. Gasoline is 8,300 mg/kg, kerosene is 11,200 mg/kg, diesel is 11,000 mg/kg, fuel oil #2 is 13,000 mg/kg, fuel oil #4 is 18,000 mg/kg, and fuel oil #6 is 44,700 mg/kg. Fuel oil is synonymous with heating oil.

In accordance with the Virginia Solid Waste Management Regulations (9VAC20-81-660§D); soils exhibiting concentrations of total petroleum hydrocarbons (TPH) above 50 mg/kg must be disposed at a licensed facility and cannot be reused on-site. This regulation applies if soils are excavated.

BTEXMN, VOCs, SVOCs, & Pesticides

The US Environmental Protection Agency Regional Screening Level Summary Table, updated May 2022, was used to compare detected concentrations of BTEXMN, VOCs, SVOCs, and Pesticides. The residential soil screening level was used for comparison as the Subject Property is proposed for mixed use development.

Herbicides

Concentrations of herbicides were not detected in on-site soil; therefore, regulatory comparisons have not been made.

Metals

The US Environmental Protection Agency Regional Screening Level Summary Table, updated May 2022, was used to compare detected concentrations of metals. The residential soil screening level was used for comparison as the Subject Property is proposed for mixed use development.

In addition, there is published data regarding background concentrations of metals throughout the United States. In *Background Versus Risk-Based Screening Levels – An Examination of Arsenic Background Soil Concentrations In Seven States*, Vosnakis, et al provides background data for arsenic concentrations in Virginia. Based on their data and analysis, arsenic in soil in Virginia has a background threshold value of 14.9 mg/kg. Values below 14.9 mg/kg are representative of background concentrations, according to their research.

5.1.2 Laboratory Results

Refer to the table in Appendix B for a comprehensive description of laboratory results, sampling rationale, etc. Throughout the text of the report and tables only analytes above the laboratory detection limit are listed. Regulatory comparisons are only listed for analytes that were detected in the samples. Please refer to the laboratory report in Appendix C for a full list of analytes and method detection limits.

Inset Map Area 1: Facility IDs 16, 28, & 46

No samples were proposed, and no samples were collected, in this Inset Map Area.

Inset Map Area 2: Bulk Fuel Storage Area

Inset Map Area 2: Bulk Fuel Storage Area Laboratory Results – Soil (mg/kg)			
Sample ID	TPH DRO	TPH GRO	BTEXMN
S-1	BDL	BDL	BDL
S-2	BDL	BDL	-
S-3	270	-	-
S-4	30	BDL	-
S-5	69	20	-
S-6	BDL	BDL	BDL
Regulatory Comparison	MDL	MDL	

- = Not sampled
MDL = laboratory method detection limit
BDL = not detected above laboratory method detection limit

Low concentrations of diesel and gasoline range organics were detected in soil of the Bulk Fuel Storage Area, specifically in the eastern and southern portions of the area.

Some soil sample concentrations are slightly higher than they were in previous reports (specifically in the eastern [S-3] and southern [S-4] portions of the area and west of the former

10,000-gallon USTs [S-5]). However, they are well below soil saturation values, and some are below the Virginia Solid Waste Management regulations for re-use on-site. Detected concentrations are above VDEQ reporting thresholds; however, concentrations are low enough that it is unlikely DEQ will request further assessment.

Inset Map Area 3: Facility IDs 21, 24, 25, 55 & 60

Inset Map Area 3: Facility IDs 21, 24, 25, 55 & 60 Laboratory Results – Soil (mg/kg)				
Sample ID	TPH DRO	TPH GRO	BTEXMN	VOCs
S-7	22	-	-	-
S-8	-	-	-	Naphthalene: 6.9
S-9	260	78	-	-
S-10	BDL	BDL	BDL	-
S-11	BDL	BDL	-	-
S-12	BDL	-	-	-
S-13	BDL	-	-	-
Regulatory Comparison	MDL	MDL		Naphthalene: 2.0

- = Not sampled
MDL = laboratory method detection limit
BDL = not detected above laboratory method detection limit

Low concentrations of diesel range organics were detected in the soil near the northeastern corner of Facility ID 24, and diesel and gasoline range organics were detected in the soil near the former pump island east of Facility ID 21.

Historical data was not provided during the completion of the Phase I ESA for sample locations S-7 and S-9. Therefore, this is new information. Concentrations are above the Virginia Solid Waste Management Regulations for re-use on-site at S-9. However, concentrations are low enough that DEQ is unlikely to request further assessment.

Concentrations of naphthalene above the residential soil screening level were detected in the soil near the southwest corner of Facility ID 55. Xylenes and toluene were identified at low levels in historical reports near sample S-8; however, naphthalene had not previously been detected in this area.

Inset Map Area 4: Facility IDs 33 & 56 & Central Eastern Portion of the Property & "Black Goo"

Inset Map Area 4: Facility IDs 33, & 56 & Central Eastern Portion of the Subject Property & "Black Goo" Laboratory Results – Soil (mg/kg)						
Sample ID	TPH DRO	TPH GRO	VOCs	SVOCs	Pesticides	RCRA Metals
S-14	BDL	BDL	-	-	BDL	-
S-15	-	-	-	BDL	-	Barium: 8.4 Chromium: 2.3 Lead: 6.6
S-16	-	-	-	BDL	-	-
S-17	-	-	m-Xylene & p-Xylene: 330 Toluene: 8.2	2-Methylnaphthalene: 0.58 2-Methylphenol: 0.36 Naphthalene: 0.71	-	-
S-18	-	-	Cyclohexane: 0.0066 Ethylbenzene: 0.044 Isopropylbenzene: 0.21 Methylcyclohexane: 0.13 Naphthalene: 120 Toluene: 0.015 m-Xylene & p-Xylene: 9.8	Naphthalene: 0.39	-	-
Regulatory Comparison			Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toluene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0		Barium: 15,000 Total Chromium: N/A Lead: 400

- = Not sampled
MDL = laboratory method detection limit
BDL = not detected above laboratory method detection limit

Concentrations of toluene, ethylbenzene and naphthalene above the regulatory comparisons were detected in soils in the central eastern portion of the Subject Property where there were historic reports of buried materials and groundwater contamination (the "Grassy Storage Area"). Concentrations of other VOCs and SVOCs were detected; however, they were below the regulatory comparisons.

VOCs were historically identified in the central eastern portion of the Subject Property (the "Grassy Storage Area"). Specific constituents and concentrations are different between the sampling events in the 1990s and this Phase II ESA sampling.

Concentrations of metals are well below residential soil screening levels.

Inset Map Area 5: Facility IDs 03, 04, 06, 08, 25, & 89

Inset Map Area 5: Facility IDs 03, 04, 06, 08, 25, & 89 Laboratory Results – Soil (mg/kg)		
Sample ID	TPH DRO	TPH GRO
S-19	16,000	-
S-20	BDL	-
S-21	BDL	BDL
S-22	12	BDL
S-23	BDL	-
S-24	BDL	-
S-25	BDL	-
Regulatory Comparison	MDL	

- = Not sampled
MDL = laboratory method detection limit
BDL = not detected above laboratory method detection limit

Elevated concentrations of diesel range organics were detected in the on-site soil near the northern portion of Facility ID 03. This concentration is above the soil saturation limit for #2 fuel oil (aka heating oil). Based on information obtained during the Phase I ESA sampling had not previously been conducted in this area. This concentration is elevated enough that DEQ may request further investigation and/or remediation.

Low concentrations of diesel range organics were detected in the on-site soil north of Facility ID 25. This concentration is slightly greater than sampling data from 1993. It is well below soil saturation values and Virginia Solid Waste Management Facility Regulations for re-use on-site. It is above the DEQ reporting threshold; however, it is unlikely that DEQ would require further assessment.

Inset Map Area 6: Facility IDs 31 & Near Drums on Side of Hill & Former Facility ID 17

Inset Map Area 6: Facility IDs 31 & Near Drums on Side of Hill & Former Facility ID 17 Laboratory Results – Soil (mg/kg)					
Sample ID	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals
S-26	BDL	BDL	4,4'-DDD: 0.011 4,4'-DDE: 0.090 4,4'-DDT: 0.029	BDL	Arsenic: 6.9 Barium: 66 Chromium: 11 Trivalent Chromium: 11 Lead: 71 Mercury: 0.069
S-27	BDL	BDL	4,4'-DDE: 0.041	BDL	Arsenic: 5.4 Barium: 76 Chromium: 10 Trivalent chromium: 10 Lead: 86 Mercury: 0.047
S-28	-	-	BDL	-	-
S-29	-	-	BDL	-	-
Regulatory Comparison			DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9 Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11

- = Not sampled
MDL = laboratory method detection limit
BDL = not detected above laboratory method detection limit

Low concentrations of pesticides were detected in the on-site soils in the area where drums and containerized materials had been dumped on the side of the hill. These concentrations are well below the regulatory comparisons.

Concentrations of arsenic are well above residential screening level comparisons but are below published background data for Virginia. Concentrations of other metals are below residential screening levels and therefore were not compared to published background data.

These areas had not previously been sampled, based on information provided during completion of the Phase I ESA.

5.2 Groundwater

5.2.1 Regulatory Comparisons

Petroleum

DEQ issued a Storage Tank Program Technical Manual (Fourth Edition, May 2011), which includes reporting standards for groundwater. In the event that levels of TPH are detected above the laboratory method detection limit, and the results are not associated with a tank closure, the findings are reportable to the Virginia DEQ.

BTEXMN, VOCs, SVOCs,

Concentrations of BTEXMN, VOCs, SVOCs, & Pesticides were compared with the US Environmental Protection Agency Reginal Screening Level Summary Table, updated May 2022. The tap water column for groundwater was used for comparison (aka the data was compared to data as if the groundwater was going to be ingested as there are not other published regulatory comparisons that are applicable).

Pesticides

Concentrations of pesticides were not detected in on-site groundwater; therefore, regulatory comparisons have not been made.

Herbicides & Metals

Herbicides and metals were not analyzed in groundwater; therefore, regulatory comparisons have not been made.

5.2.2 Laboratory Results

Refer to the table in Appendix B for a comprehensive description of laboratory results, sampling rationale, etc. Throughout the text of the report and tables only analytes above the laboratory detection limit are listed. Regulatory comparisons are only listed for analytes that were detected in the samples. Please refer to the laboratory report in Appendix C for a full list of analytes and method detection limits.

Inset Map Area 1: Facility IDs 16, 28, & 46

No samples were proposed, and no samples were collected, in this Inset Map Area.

Inset Map Area 2: Bulk Fuel Storage Area

Inset Map Area 2: Bulk Fuel Storage Area Laboratory Results – Groundwater (µg/L)			
Sample ID	TPH DRO	TPH GRO	BTEXMN
S-1	BDL	BDL	BDL
S-2	500	BDL	-
S-3	300	-	-
S-4	310	430	-
S-5	BDL	310	-
S-6	280	BDL	M: 3.5
Regulatory Comparison	MDL	MDL	M: 14

- = Not sampled
MDL: laboratory method detection limit
BDL = not detected above laboratory method detection limit

Low concentrations of diesel and gasoline range organics and methyl tert butyl ether were detected in the groundwater at the bulk fuel storage area. Methyl tert butyl ether was below the regulatory comparison. Specifically, concentrations were detected in the southern and eastern portions of the area.

Groundwater had not historically been sampled in this area, based on information obtained during the completion of the Phase I ESA. Concentrations of diesel and gasoline range organics are above DEQ regulatory reporting thresholds in some samples.

Inset Map Area 3: Facility IDs 21, 24, 25, 55 & 60

Inset Map Area 3: Facility IDs 21, 24, 25, 55 & 60 Laboratory Results – Groundwater (µg/L)				
Sample ID	TPH DRO	TPH GRO	BTEXMN	VOCs
S-7	BDL	-	-	-
S-8	-	-	-	Toluene: 120
S-9	BDL	BDL	-	-
S-10	780/BDL	BDL/BDL	M: 4.3/2.2	
S-11	BDL	BDL	-	-
S-12	BDL	-	-	-
S-13	BDL	-	-	-
Regulatory Comparison	MDL	MDL	M: 14	Toluene: 1,100

- = Not sampled
MDL: laboratory method detection limit
BDL = not detected above laboratory method detection limit

Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed in the above table.

Concentrations of diesel range organics and methyl tert butyl ether were detected in groundwater east of the former 12,000-gallon USTs. Methyl tert butyl ether was below the regulatory comparison.

Toluene was detected in groundwater near the southwestern corner of Facility ID 55. Concentrations are below the regulatory comparison.

Groundwater had not historically been sampled in these areas, based on information obtained during the completion of the Phase I ESA. Concentrations of diesel range organics are above DEQ regulatory reporting thresholds.

Inset Map Area 4: Facility IDs 33 & 56 & Central Eastern Portion of the Property & "Black Goo"

Inset Map Area 4: Facility IDs 33 & 56 Laboratory Results – Groundwater (µg/L)		
Sample ID	VOCs	SVOCs
S-14	-	-
S-15	-	-
S-16	-	-
S-17	Toluene: 280,000	2-Methylnaphthalene: 17 2-Methylphenol: 170 3&4 Methylphenol: 110 Naphthalene: 59
S-18	Ethylbenzene: 380 Toluene: 68,000	Benzaldehyde: 18 2-Methylphenol: 84 3&4 Methylphenol: 97 Naphthalene: 23
Regulatory Comparison	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12

- = Not sampled
MDL: laboratory method detection limit
BDL = not detected above laboratory method detection limit

Sample S-14 was supposed to be analyzed in groundwater; however, a groundwater sample was not able to be collected from this boring location. There was no water, despite multiple attempts, adjusting the depth of the screened interval, etc.

Samples S-15 & S-16 were intentionally only soil samples.

Concentrations of toluene, ethylbenzene, and naphthalene were detected in groundwater above the regulatory comparison in the central eastern portion of the Subject Property where there were historic reports of buried materials and groundwater contamination. Concentrations of other VOCs and SVOCs were detected; however, they were below the regulatory comparisons.

VOCs were historically identified in the central eastern portion of the Subject Property (the Grassy Storage Area). Specific constituents and concentrations are different between the sampling events in the 1990s and this Phase II ESA sampling.

Inset Map Area 5: Facility IDs 03, 04, 06, 08, 25, & 89

Inset Map Area 5: Facility IDs 03, 04, 06, 08, 25, & 89 Laboratory Results – Groundwater (µg/L)		
Sample ID	TPH DRO	TPH GRO
S-19	290	-
S-20	BDL	-
S-21	BDL	BDL
S-22	BDL	BDL
S-23	BDL	-
S-24	BDL	-
S-25	BDL	-
Regulatory Comparison	MDL	

- = Not sampled
MDL: laboratory method detection limit
BDL = not detected above laboratory method detection limit

Concentrations of diesel range organics were detected in the on-site groundwater near the northern portion of Facility ID 03.

Groundwater had not historically been sampled in these areas, based on information obtained during the completion of the Phase I ESA. Concentrations of diesel range organics are above DEQ regulatory reporting thresholds in sample S-19.

Inset Map Area 6: Facility IDs 31 & Near Drums on Side of Hill & Former Facility ID 17

Inset Map Area 6: Facility IDs 31 & Near Drums on Side of Hill & Former Facility ID 17 Laboratory Results – Groundwater (µg/L)	
Sample ID	Pesticides
S-26	-
S-27	-
S-28	BDL
S-29	BDL
Regulatory Comparison	

- = Not sampled
MDL: laboratory method detection limit
BDL = not detected above laboratory method detection limit

Samples S-26 & S-27 were intentionally only soil samples.

Concentrations of pesticides were not detected in on-site groundwater.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase II ESA consisted of conducting soil and/or groundwater sampling in the on-site areas most likely to be impacted by the RECs and HRECs discussed in Section 1.1, above. Samples were laboratory analyzed for total petroleum hydrocarbons diesel range organics (TPH DRO); total petroleum hydrocarbons gasoline range organics (TPH GRO); benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether (MTBE), naphthalene (BTEXMN); volatile organic compounds (VOCs); semi volatile organic compounds (SVOCs); pesticides; herbicides; and/or RCRA metals (arsenic, barium, cadmium, chromium [hexavalent and trivalent], lead, mercury, selenium, and silver) depending on the constituents of concern from each finding in the Phase I ESA.

Sampling revealed low concentrations of diesel and gasoline in on-site soil and groundwater in the Bulk Fuel Storage Area, specifically the eastern and southern portions of the area (S-2 through S-6). MTBE was also identified in on-site groundwater at one sample location in this area. The concentration of MTBE in this area was well below the US Environmental Protection Agency's (EPA's) tap water screening level.

Concentrations of petroleum constituents were also identified in the following areas:

- In the soil near the northeast corner of Facility ID 24 (S-7) (low levels of diesel).
- In the soil near the former pump island near Facility ID 21 (S-9) (low levels of diesel and gasoline).
- In the groundwater east of the former 12,000-gallon USTs near Facility IDs 25 & 60 (S-10) (low levels of diesel and MTBE). Concentrations of MTBE were well below the US EPA tap water screening level.
- In the soil and groundwater outside the northern wall of Facility ID 03 (S-19) (diesel). The concentration of diesel in the soil at this location was well above the soil saturation value; the value at which it can be a source of free product.
- In the soil north of Facility ID 25 (S-22) (low levels of diesel).

Concentrations of VOCs were identified in the sample near the southwestern corner of Facility ID 55 (S-8). Naphthalene was identified in on-site soil above the US EPA residential screening level. Toluene was detected in groundwater below the tap water screening level.

VOCs and SVOCs were identified in on-site soil and groundwater in the "Grassy Storage Area" area where there were reports of historical VOC contamination and suspect buried drums (S-17 & S-18). Toluene, ethylbenzene, and naphthalene were detected above tap water screening levels in groundwater and naphthalene was detected in soil above residential screening levels.

Concentrations of metals were detected in on-site soil west of Facility ID 56 (S-15). Concentrations were below residential screening levels. Please note that groundwater was not sampled at this location.

Concentrations of metals and pesticides were detected in the area where drums and other containerized materials have been dumped down the hill into the woods (S-26 & S-27). Concentrations of pesticides are below EPA residential screening levels. Concentrations of

arsenic are above residential screening levels but below published background concentrations. Please note that groundwater was not sampled at this location.

Other constituents of concern were below laboratory detection limits in samples in which they were analyzed.

In general, concentrations in soil are similar to data from historical reports obtained during the completion of the Phase I ESA. However, a few areas were sampled during this Phase II ESA that had not previously been sampled. The most significant finding in soil is the high concentration of diesel range organics near the northern side of Facility ID 03 (Sample S-19), the approximate location of a former heating oil UST. Other concentrations of petroleum constituents are low enough that it is unlikely DEQ will require further assessment.

Historically, only limited groundwater sampling had been conducted; therefore, most of the groundwater data is new information. In general, concentrations are low and are unlikely to warrant further assessment. However, concentrations in the "Grassy Storage Area" (S-17 & S-18) are well above screening values (note that VOCs and SVOCs in groundwater are compared to drinking water standards). Sampling was conducted in this area in the 1990s; however, the detected constituents and concentrations are different than historical data.

This Phase II ESA should be submitted to DEQ's Tidewater Regional Office, Petroleum Program for their review. This recommendation is specific to the petroleum contamination identified. Should you want further assurances regarding the VOC, SVOC, pesticides, or metals contamination, DEQ's Voluntary Remediation Program (VRP) can be approached.

7.0 REFERENCES

Mixon, R.B., Berquist, Jr., C.R., Newell, W.L., Johnson, G.H., Powars, D.S., Schindler, J.S., and Rader, E.K., 1989, *Geologic Map and Generalized Cross Sections of the Coastal Plain and Adjacent Parts of the Piedmont, Virginia*: U.S. Geological Survey Miscellaneous Investigations Series I-2033.

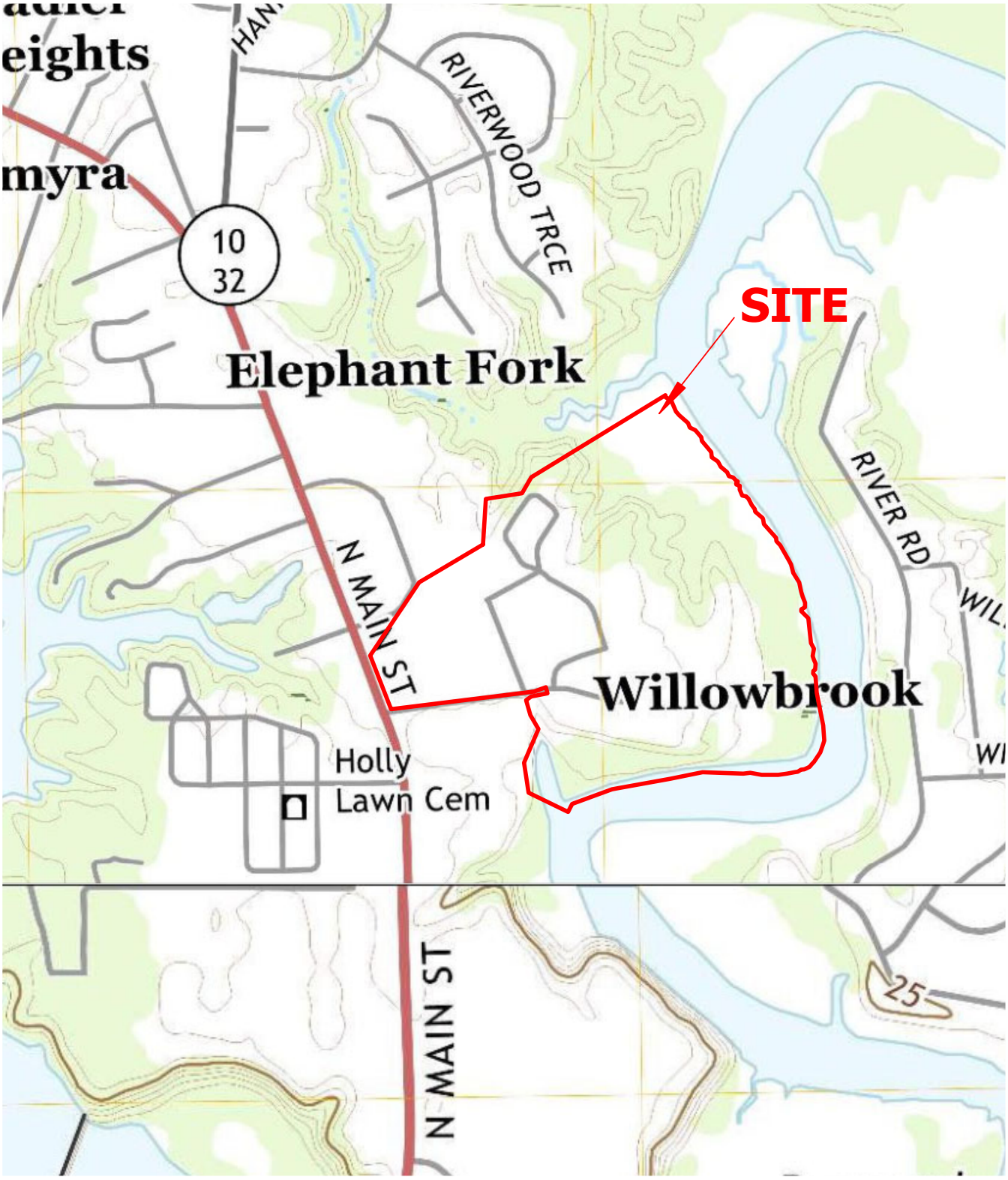
Smith, P.J. and Ellison, R.P., 1985, *Groundwater Map of Virginia*: Virginia Water Control Board, Ground Water Program, Information Bulletin 560.

US Geological Survey, 2019, Topographic Quadrangle, *Chuckatuck,* Virginia.

US Geological Survey, 2019, Topographic Quadrangle, *Suffolk, Virginia*.

Vosnakis, K.A.S., Perry, E., Madsen, K, Bradley, L.J.N., 2010, Background Versus Risk-Based Screening Levels – An Examination of Arsenic Background Soil Concentrations In Seven States. *Proceedings of the Annual International Conference on Soils, Sediments, Water and Energy*, *14*(10).

Appendix A: Figures



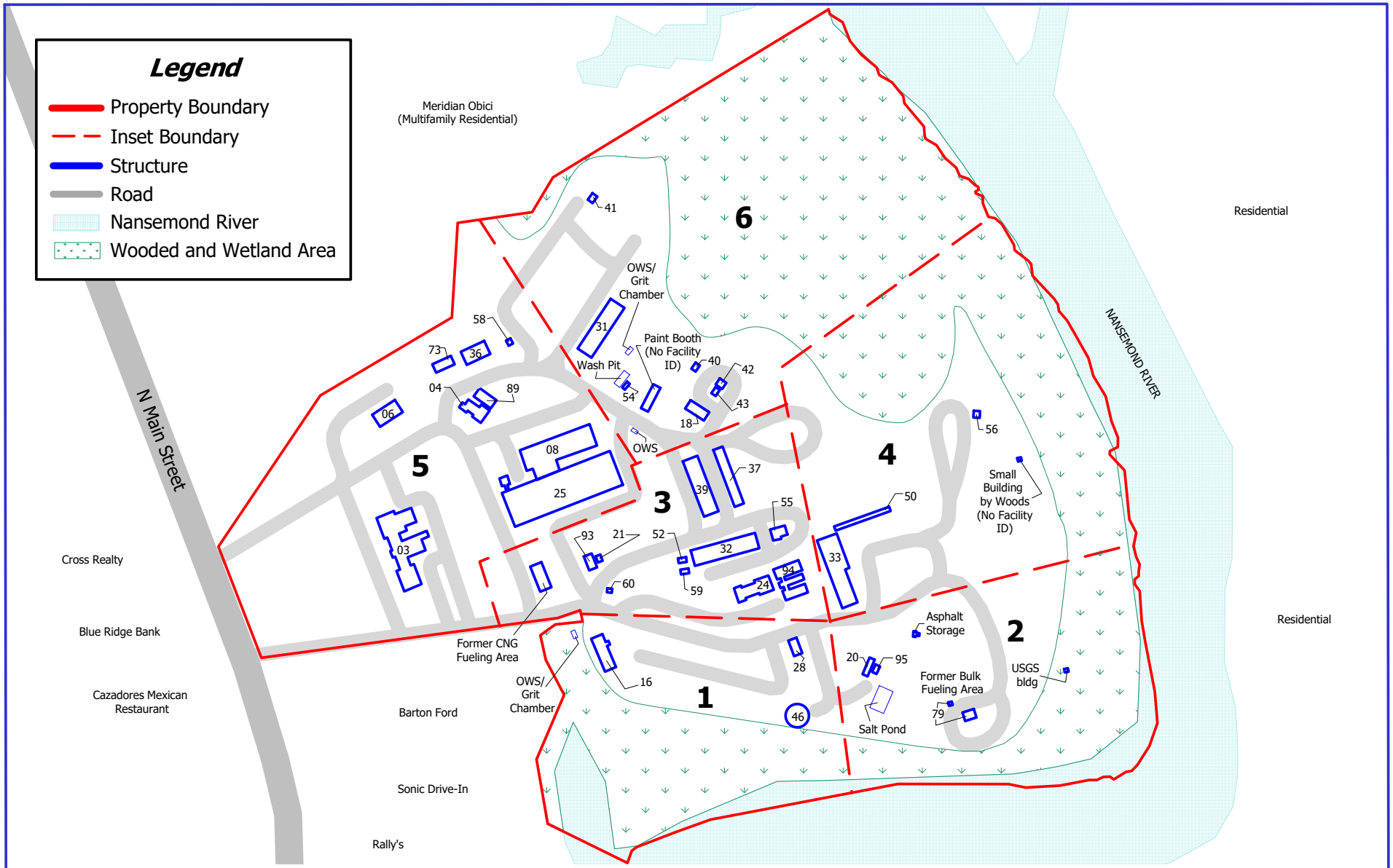
SOURCE: USGS TOPOGRAPHICAL QUADRANGLE MAP: CHUCKATUCK & SUFFOLK, VIRGINIA, 2019.

NOT TO SCALE
DATE: 4/22/22
BAY # 22-190-01
DRAWN BY: CSB

NORTH

FIGURE 1: VICINITY MAP
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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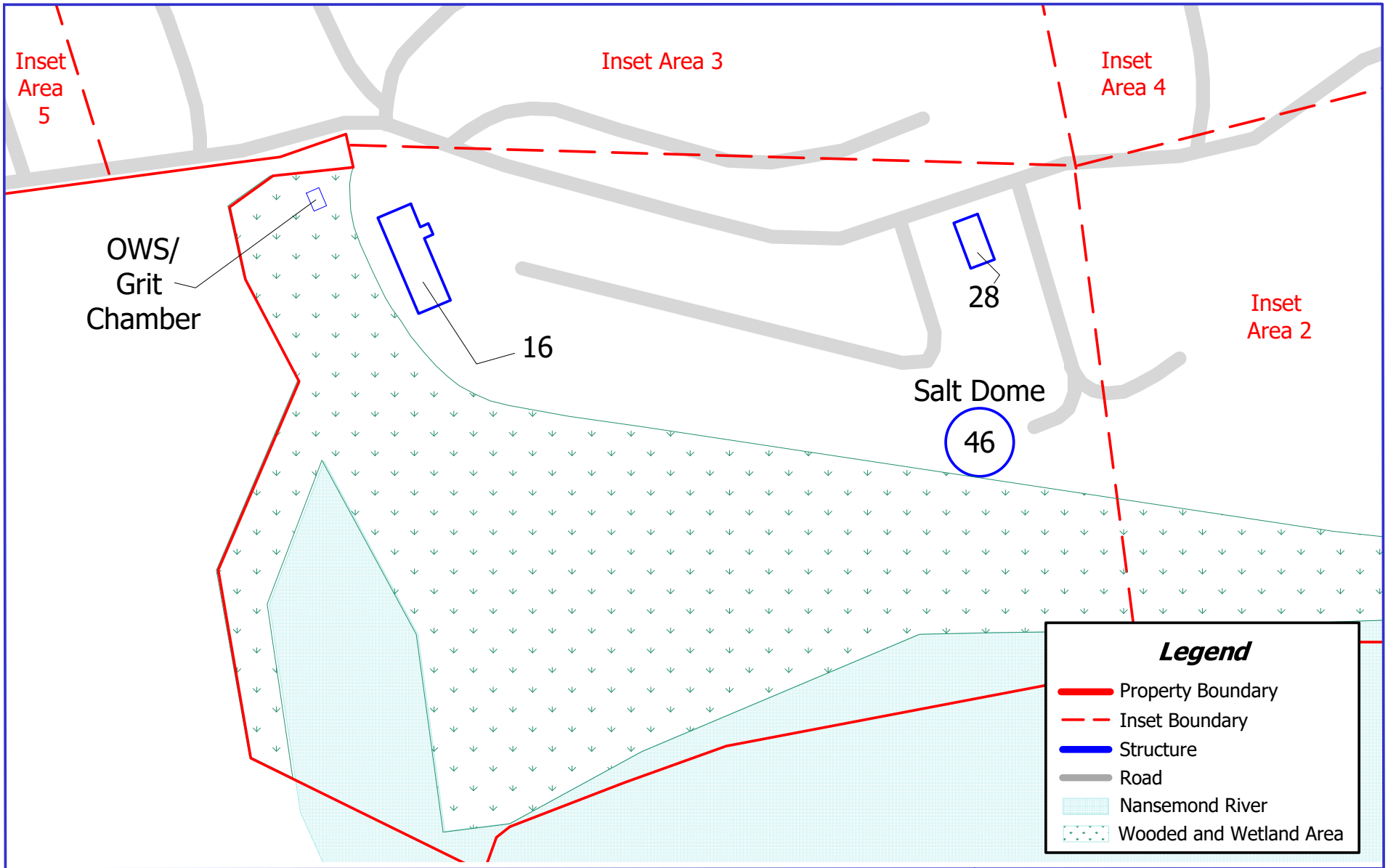
BAY # 22-306-01
DRAWN BY: CSB

NORTH

FIGURE 2: SITE MAP
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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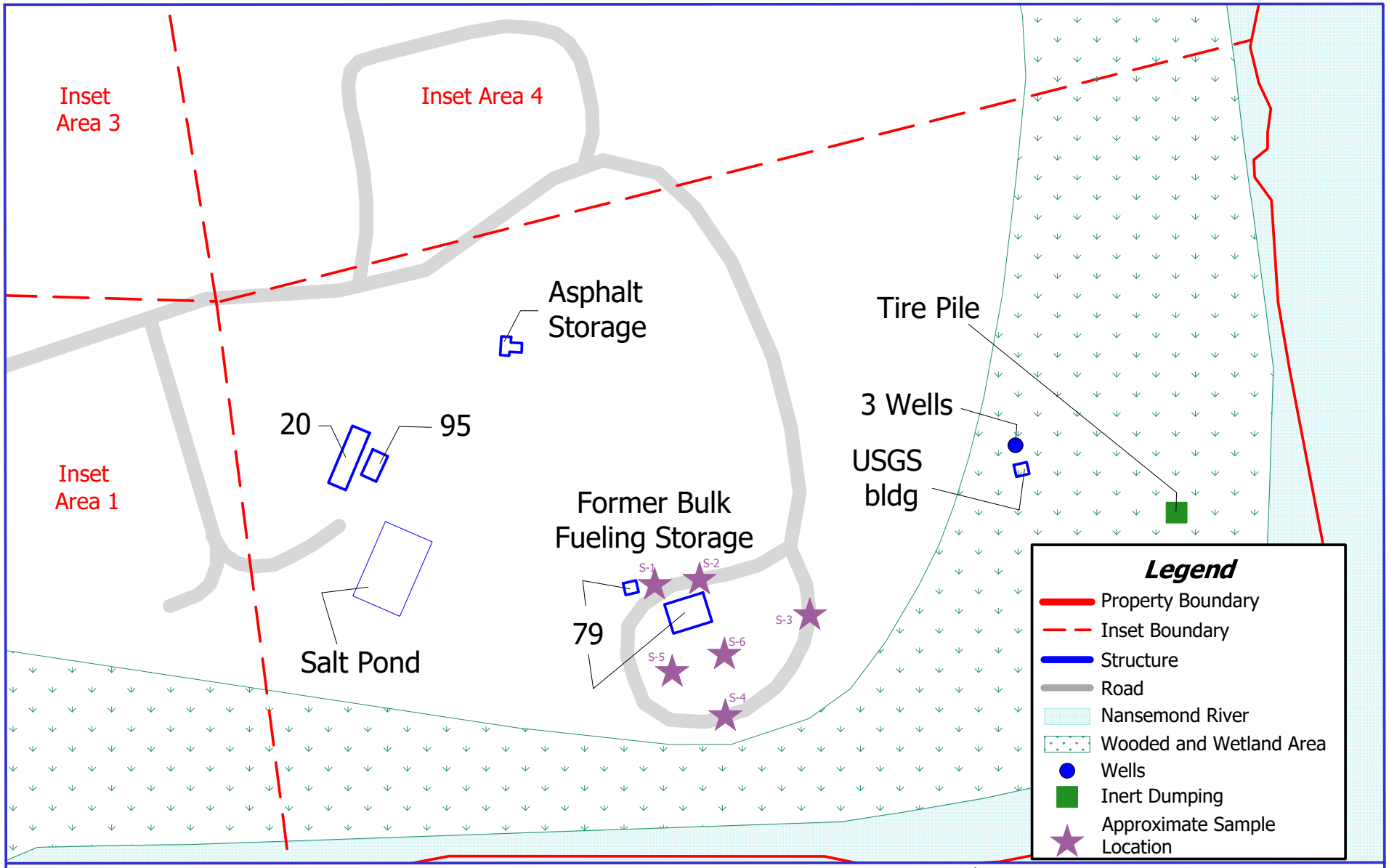
DATE: 7/12/22
BAY # 22-306-01
DRAWN BY: CSB

NORTH

FIGURE 3: INSET AREA 1
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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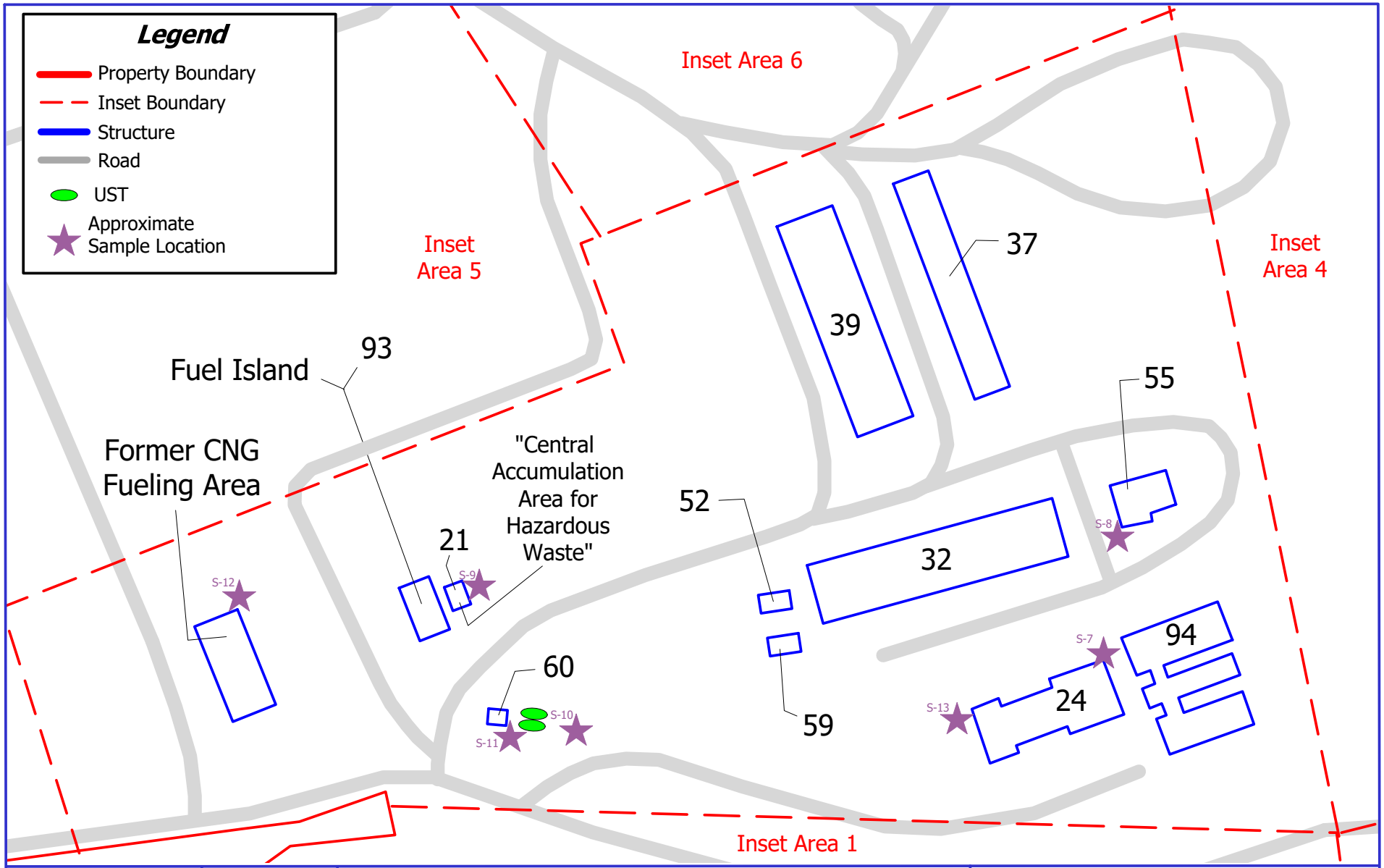
REVISED BY: SSH

NORTH

FIGURE 4: INSET AREA 2
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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REVISED: 11/29/22
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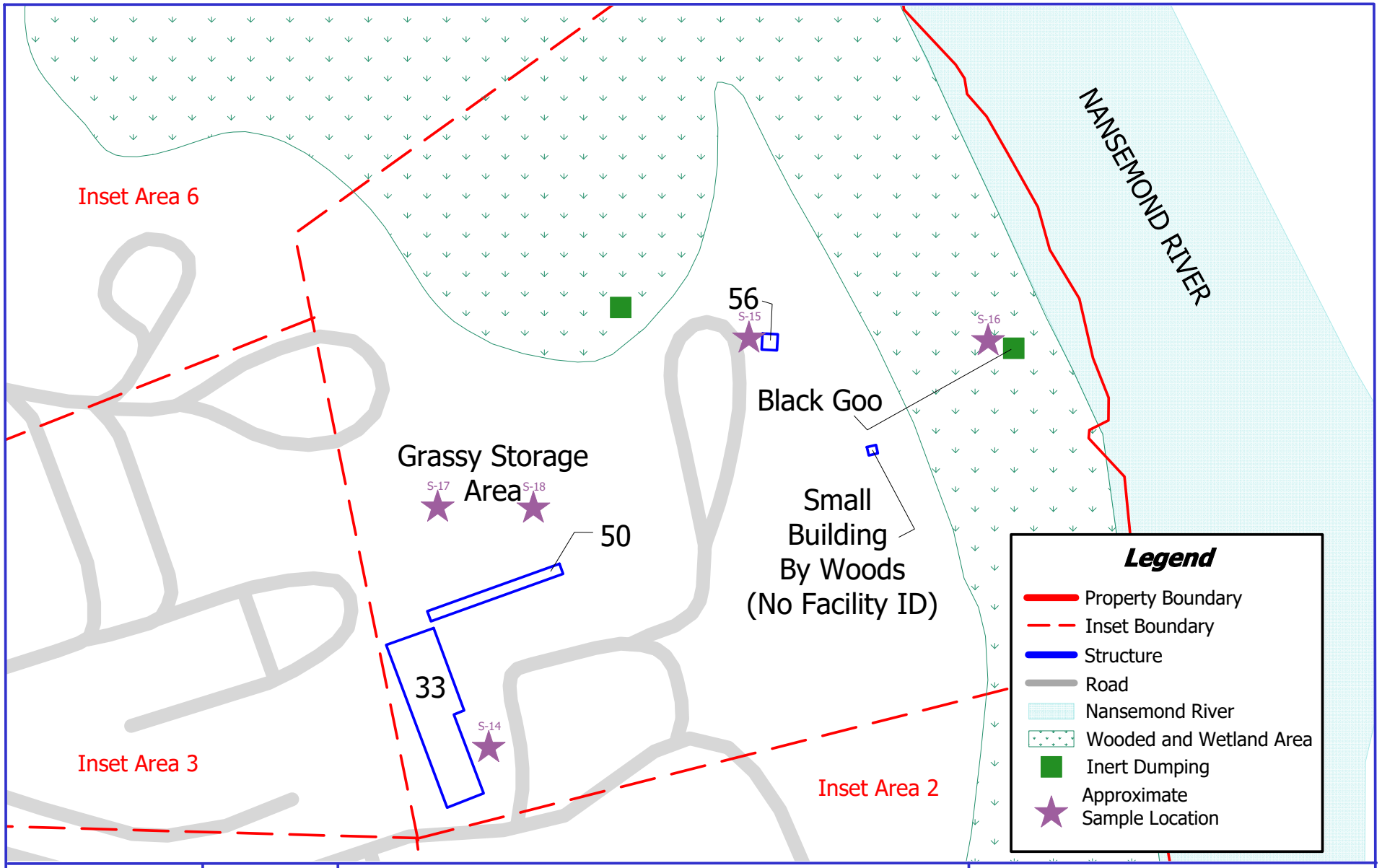
NORTH

FIGURE 5: INSET AREA 3
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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REVISED: 11/29/22
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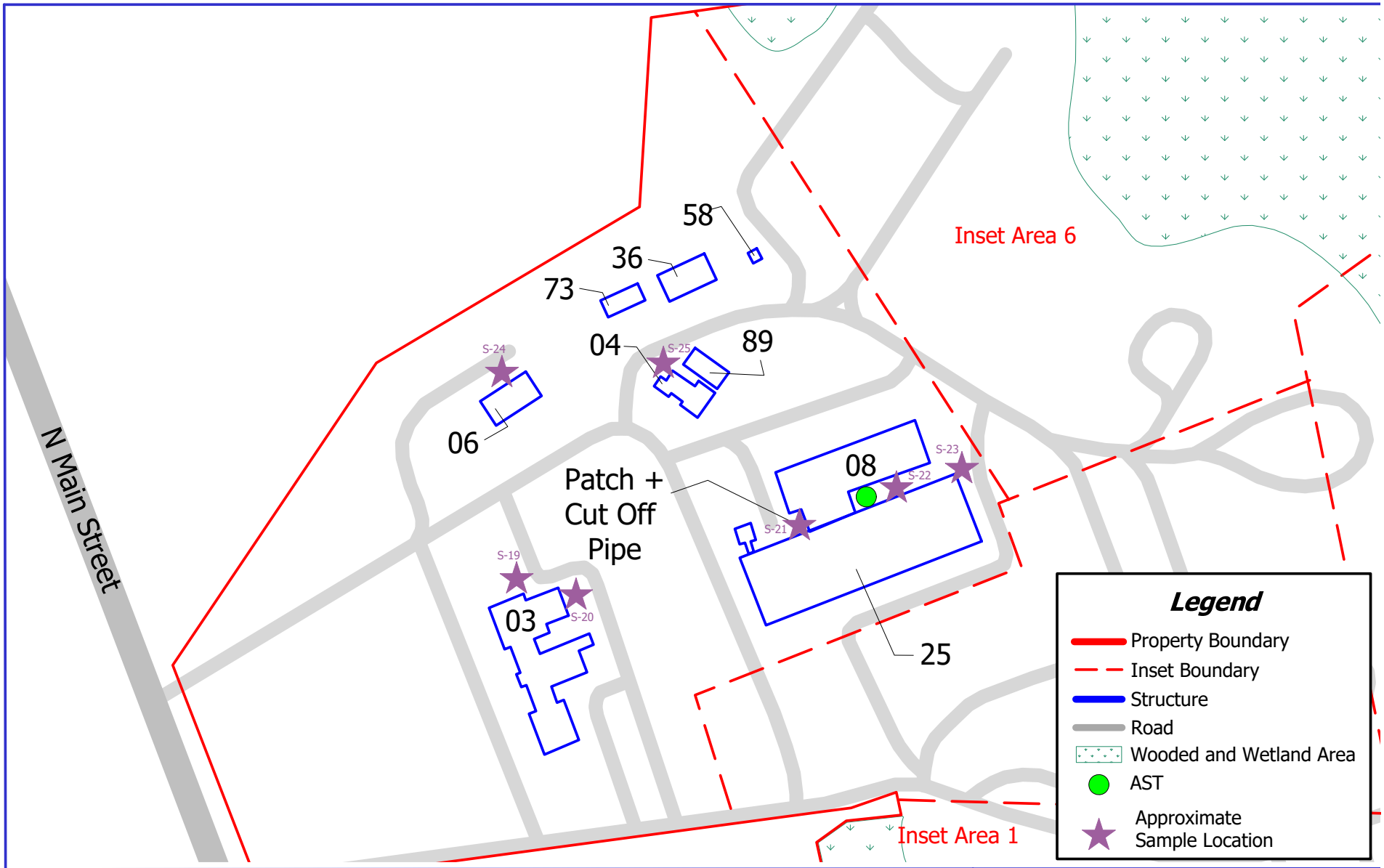
NORTH

FIGURE 6: INSET AREA 4
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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REVISED: 11/29/22
BAY # 22-306-01
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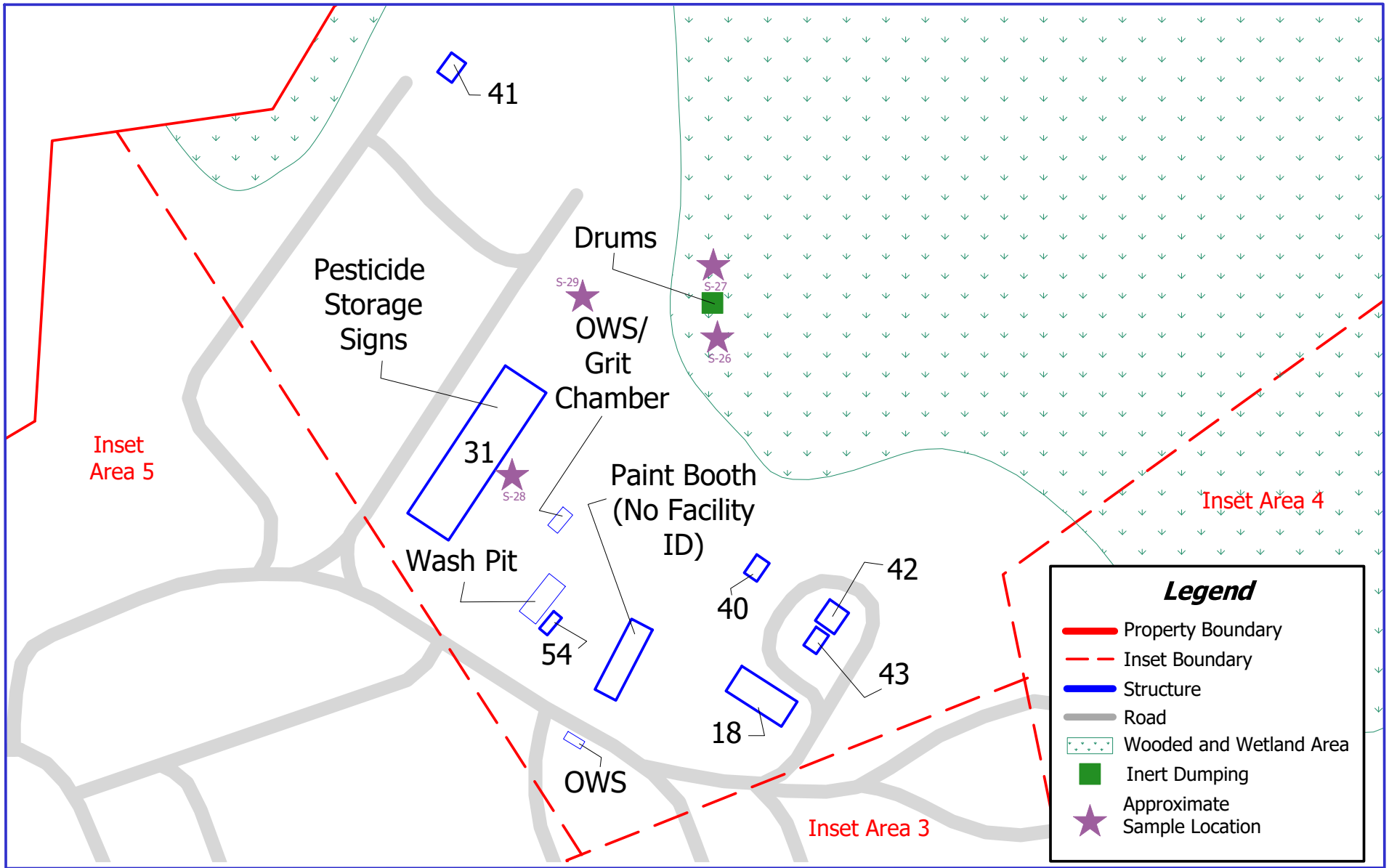
NORTH

FIGURE 7: INSET AREA 5
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services



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REVISED: 11/29/22
BAY # 22-306-01
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NORTH

FIGURE 8: INSET AREA 6
VDOT PROPERTY
1700 N MAIN STREET
SUFFOLK, VIRGINIA

BAY ENVIRONMENTAL, INC.
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Appendix B: Tables

VDOT
1700 N Main Street
Suffolk, VA
Laboratory Results, Sampling Rationale & Location

Sample ID	Matrix	TPH DRO	TPH GRO	BTEXMN	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals	Sample Location/Finding from Phase I ESA	VDOT Facility ID
S-1	Groundwater (µg/L)	BDL	BDL	BDL	-	-	-	-	-	West of two 30,000-gallon USTs removed in 2021 associated with PC # 2022-5070	bulk fuel storage area
	Soil (mg/kg)	BDL	BDL	BDL	-	-	-	-	-		
S-2	Groundwater (µg/L)	500	BDL	-	-	-	-	-	-	East of two 30,000-gallon USTs removed in 2021 associated with PC # 2022-5070	bulk fuel storage area
	Soil (mg/kg)	BDL	BDL	-	-	-	-	-	-		
S-3	Groundwater (µg/L)	300	-	-	-	-	-	-	-	Release of diesel fuel from bulk fuel dispenser associated with PC # 1999-2247	bulk fuel storage area
	Soil (mg/kg)	270	-	-	-	-	-	-	-		
S-4	Groundwater (µg/L)	310	430	-	-	-	-	-	-	Spillage in the vicinity of the old ASTs associated with PC # 1994-3266 (only found through EEE report)	bulk fuel storage area
	Soil (mg/kg)	30	BDL	-	-	-	-	-	-		
S-5	Groundwater (µg/L)	BDL	310	-	-	-	-	-	-	West of former 10,000-gallon USTs removed from the ground	bulk fuel storage area
	Soil (mg/kg)	69	20	-	-	-	-	-	-		
S-6	Groundwater (µg/L)	280	BDL	M: 3.5	-	-	-	-	-	East of former 10,000-gallon USTs removed from the ground	bulk fuel storage area
	Soil (mg/kg)	BDL	BDL	BDL	-	-	-	-	-		
S-7	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former 1,000-gallon kerosene UST associated with PC # 1999-2426 - northeast corner of the building	24
	Soil (mg/kg)	22	-	-	-	-	-	-	-		
Regulatory Comparison	Groundwater (µg/L)	MDL	MDL	M: 14	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12					
	Soil (mg/kg)	MDL	MDL		Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toleuene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0	DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9* Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11		

Only detected constituents are listed in BTEXMN, VOC, SVOC, Pesticide, Herbicide, and Metals columns. Refer to the laboratory results for all analyzed constituents.
Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed.
- = not analyzed
BDL = below laboratory detection limit
TPH GRO = total petroleum hydrocarbons, gasoline range organics
MDL = laboratroy method detection limit
N/A = not applicable (the constituent is not listed in the document that was used for comparison)
TPH DRO = total petroleum hydrocarbons, diesel range organics
BTEXMN = benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether, naphthalene
Regluatory comparisons are only listed for constituents detected above laboratory method detection limits.
TPH DRO & GRO were compared to DEQ's Storage Tank Program Technical Manual. Other constituents were compared to EPA Regional Screening Level Summary Table (May 2022).
* Arsenic was also compared to published background data.

VDOT
1700 N Main Street
Suffolk, VA
Laboratory Results, Sampling Rationale & Location

Sample ID	Matrix	TPH DRO	TPH GRO	BTEXMN	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals	Sample Location/Finding from Phase I ESA	VDOT Facility ID
S-8	Groundwater (µg/L)	-	-	-	Toluene: 120	-	-	-		Former 8,000-gallon toluene UST -southwest corner of building	55
	Soil (mg/kg)	-	-	-	Naphthalene: 6.9	-	-	-	-		
S-9	Groundwater (µg/L)	BDL	BDL	-	-	-	-	-	-	Former pump island location & central haz waste accumulation area	25 & 21
	Soil (mg/kg)	260	78	-	-	-	-	-	-		
S-10	Groundwater (µg/L)	780/BDL	BDL/BDL	M: 4.3/2.2	-	-	-	-	-	East of two 12,000-gallon USTs removed from ground	25 & 60
	Soil (mg/kg)	BDL	BDL	BDL	-	-	-	-	-		
S-11	Groundwater (µg/L)	BDL	BDL	-	-	-	-	-	-	West of two 12,000-gallon USTs removed from ground	25 & 60
	Soil (mg/kg)	BDL	BDL	-	-	-	-	-	-		
S-12	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former 4,000-gallon diesel UST - under area currently known as "former CNG Fueling Area"	25
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
S-13	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former heating oil UST outside in grassy area northwest corner of the building (interview from 2014 Phase I ESA)	24
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
S-14	Groundwater (µg/L)	no groundwater recovery - sample not collected								East of pesticide storage area & petroleum storage area	33
	Soil (mg/kg)	BDL	BDL	-	-	-	BDL	-	-		
S-15	Soil (mg/kg)	-	-	-	-	BDL	-	-	Barium: 8.4 Total Chromium: 2.3 Lead: 6.6	West of explosive and paint chip storage	56
Regulatory Comparison	Groundwater (µg/L)	MDL	MDL	M: 14	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12					
	Soil (mg/kg)	MDL	MDL		Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toluene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0	DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9* Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11		

Only detected constituents are listed in BTEXMN, VOC, SVOC, Pesticide, Herbicide, and Metals columns. Refer to the laboratory results for all analyzed constituents.
Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed.
- = not analyzed
BDL = below laboratory detection limit
TPH GRO = total petroleum hydrocarbons, gasoline range organics
MDL = laboratroy method detection limit
N/A = not applicable (the constituent is not listed in the document that was used for comparison)
TPH DRO = total petroleum hydrocarbons, diesel range organics
BTEXMN = benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether, naphthalene
Regluatory comparisons are only listed for constituents detected above laboratory method detection limits.
TPH DRO & GRO were compared to DEQ's Storage Tank Program Technical Manual. Other constituents were compared to EPA Regional Screening Level Summary Table (May 2022).
* Arsenic was also compared to published background data.

VDOT
1700 N Main Street
Suffolk, VA
Laboratory Results, Sampling Rationale & Location

Sample ID	Matrix	TPH DRO	TPH GRO	BTEXMN	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals	Sample Location/Finding from Phase I ESA	VDOT Facility ID
S-16	Soil (mg/kg)	-	-	-	-	BDL	-	-	-	"Black goo" identified during wetland delineation at wetland flag #157 - Near shoreline east of Facility IDs 33 & 50	none
S-17	Groundwater (µg/L)	-	-	-	Toluene: 280,000	2-Methylnaphthalene: 17 2-Methylphenol: 170 3&4 Methylphenol: 110 Naphthalene: 59	-	-	-	"Grassy Storage Area" Central eastern portion of property - VOC contamination in groundwater and suspect buried drums found through previous reports - western portion of area	none
	Soil (mg/kg)	-	-	-	Toluene: 8.2 m&p-Xylene: 330	2-Methylnaphthalene: 0.58 2-Methylphenol: 0.36 Naphthalene: 0.71	-	-	-		
S-18	Groundwater (µg/L)	-	-	-	Ethylbenzene: 380 Toluene: 68,000	Benzaldehyde: 18 2-Methylphenol: 84 3&4 Methylphenol: 97 Naphthalene: 23	-	-	-	"Grassy Storage Area" Central eastern portion of property - VOC contamination in groundwater and suspect buried drums found through previous reports - central portion of area	none
	Soil (mg/kg)	-	-	-	Cyclohexane: 0.0066 Ethylbenzene: 0.044 Isopropylbenzene: 0.21 Methylcyclohexane: 0.13 Naphthalene: 120 Toluene: 0.015 m-xylene & p-xylene: 9.8	Naphthalene: 0.39	-	-	-		
S-19	Groundwater (µg/L)	290	-	-	-	-	-	-	-	Former heating oil UST outside northern wall (interview from 2014 Phase I ESA & building plans)	03
	Soil (mg/kg)	16,000	-	-	-	-	-	-	-		
Regulatory Comparison	Groundwater (µg/L)	MDL	MDL	M: 14	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12					
	Soil (mg/kg)	MDL	MDL		Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toleuene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0	DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9* Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11		

Only detected constituents are listed in BTEXMN, VOC, SVOC, Pesticide, Herbicide, and Metals columns. Refer to the laboratory results for all analyzed constituents.
Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed.
- = not analyzed
BDL = below laboratory detection limit
TPH GRO = total petroleum hydrocarbons, gasoline range organics
MDL = laboratroy method detection limit
N/A = not applicable (the constituent is not listed in the document that was used for comparison)
TPH DRO = total petroleum hydrocarbons, diesel range organics
BTEXMN = benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether, naphthalene
Regluatory comparisons are only listed for constituents detected above laboratory method detection limits.
TPH DRO & GRO were compared to DEQ's Storage Tank Program Technical Manual. Other constituents were compared to EPA Regional Screening Level Summary Table (May 2022).
* Arsenic was also compared to published background data.

VDOT
1700 N Main Street
Suffolk, VA
Laboratory Results, Sampling Rationale & Location

Sample ID	Matrix	TPH DRO	TPH GRO	BTEXMN	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals	Sample Location/Finding from Phase I ESA	VDOT Facility ID
S-20	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former 550-gallon diesel UST associated with PC # 1999-2329 eastern side of building at northern end	03
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
S-21	Groundwater (µg/L)	BDL	BDL	-	-	-	-	-	-	Asphalt patch with cut off metal pipe between buildings (identified during Bay Env site visit)	28 & 08
	Soil (mg/kg)	BDL	BDL	-	-	-	-	-	-		
S-22	Groundwater (µg/L)	BDL	BDL	-	-	-	-	-	-	Former 10,000-gallon #6 oil UST removed from the ground & petroleum storage indoors - northern side of building	25
	Soil (mg/kg)	12	BDL	-	-	-	-	-	-		
S-23	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Possible former heating oil UST under northeastern corner of bld (interview from 2014 Phase I ESA)	25
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
S-24	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former heating oil UST where chiller plant is now located (interview from 2014 Phase I ESA)	06
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
S-25	Groundwater (µg/L)	BDL	-	-	-	-	-	-	-	Former heating oil UST in small grassy area between buildings (interview from 2014 Phase I ESA)	04 & 89
	Soil (mg/kg)	BDL	-	-	-	-	-	-	-		
Regulatory Comparison	Groundwater (µg/L)	MDL	MDL	M: 14	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12					
	Soil (mg/kg)	MDL	MDL		Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toluene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0	DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9* Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11		

Only detected constituents are listed in BTEXMN, VOC, SVOC, Pesticide, Herbicide, and Metals columns. Refer to the laboratory results for all analyzed constituents.
Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed.
- = not analyzed
N/A = not applicable (the constituent is not listed in the document that was used for comparison)
BDL = below laboratory detection limit
TPH DRO = total petroleum hydrocarbons, diesel range organics
TPH GRO = total petroleum hydrocarbons, gasoline range organics
BTEXMN = benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether, naphthalene
MDL = laboratroy method detection limit
Regluatory comparisons are only listed for constituents detected above laboratory method detection limits.
TPH DRO & GRO were compared to DEQ's Storage Tank Program Technical Manual. Other constituents were compared to EPA Regional Screening Level Summary Table (May 2022).
* Arsenic was also compared to published background data.

VDOT
1700 N Main Street
Suffolk, VA
Laboratory Results, Sampling Rationale & Location

Sample ID	Matrix	TPH DRO	TPH GRO	BTEXMN	VOCs	SVOCs	Pesticides	Herbicides	RCRA Metals	Sample Location/Finding from Phase I ESA	VDOT Facility ID
S-26	Soil(mg/kg)	-	-	-	BDL	BDL	4,4'-DDD: 0.011 4,4'-DDE: 0.090 4,4'-DDT: 0.029	BDL	Arsenic: 6.9 Barium: 66 Total Chromium: 11 Trivalent chromium: 11 Lead: 71 Mercury: 0.069	Rusted drums on side of hill in woods northeast of Facility ID 31	none
S-27	Soil (mg/kg)	-	-	-	BDL	BDL	4,4'-DDE: 0.041	BDL	Arsenic: 5.4 Barium: 76 Total Chromium: 10 Trivalent Chromium: 10 Lead: 86 Mercury: 0.047	Rusted drums on side of hill in woods northeast of Facility ID 31	none
S-28	Groundwater (µg/L)	-	-	-	-	-	BDL	-	-	Southeast of pesticide storage area at Facility ID 31	31
	Soil (mg/kg)	-	-	-	-	-	BDL	-	-		
S-29	Groundwater (µg/L)	-	-	-	-	-	BDL	-	-	Approximate former location of pesticide storage area (Facility ID 17 has been demolished)	17
	Soil (mg/kg)	-	-	-	-	-	BDL	-	-		
Regulatory Comparison	Groundwater (µg/L)	MDL	MDL	M: 14	Ethylbenzene: 1.5 Toluene: 1,100	Benzaldehyde: 19 2-Methylnaphthalene: 36 2-Methylphenol: 3,200 3&4-Methylphenol: 370 Naphthalene: 0.12					
	Soil (mg/kg)	MDL	MDL		Cyclohexane: 6,500 Ethylbenzene: 5.8 Isopropylbenzene: 1,900 Methylcyclohexane: N/A Naphthalene: 2.0 Toleuene: 4,900 m&p-Xylene: 550	2-Methylnaphthalene: 240 2-Methylphenol: 930 Naphthalene: 2.0	DDD: 1.9 DDE: 2.0 DDT: 1.9		Arsenic: 0.68 & 14.9* Barium: 15,000 Total Chromium: N/A Trivalent Chromium: 120,000 Lead: 400 Mercury: 11		

Only detected constituents are listed in BTEXMN, VOC, SVOC, Pesticide, Herbicide, and Metals columns. Refer to the laboratory results for all analyzed constituents.
Groundwater sample S-10 was analyzed twice by the lab as it had two different collection dates/times. Both results are listed.
- = not analyzed
N/A = not applicable (the constituent is not listed in the document that was used for comparison)
BDL = below laboratory detection limit
TPH DRO = total petroleum hydrocarbons, diesel range organics
TPH GRO = total petroleum hydrocarbons, gasoline range organics
BTEXMN = benzene, toluene, ethylbenzene, xylene, methyl tert butyl ether, naphthalene
MDL = laboratroy method detection limit
Regluatory comparisons are only listed for constituents detected above laboratory method detection limits.
TPH DRO & GRO were compared to DEQ's Storage Tank Program Technical Manual. Other constituents were compared to EPA Regional Screening Level Summary Table (May 2022).
* Arsenic was also compared to published background data.

Appendix C: Lab Reports

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Sara Howard
Bay Environmental Inc
648 Independence Parkway
Chesapeake Virginia 23320

JOB DESCRIPTION

VDOT Area Headquarters

JOB NUMBER

400-227445-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL32514

myEOL

Table of Contents

Job ID: 400-227445-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227445-1

Comments
No additional comments.

Receipt
The samples were received on 10/18/2022 9:24 AM, 10/20/2022 9:56 AM, 10/21/2022 9:56 AM, 10/26/2022 9:12 AM, 10/27/2022 9:24 AM and 10/28/2022 8:59 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 0.0º C, 0.0º C, 0.0º C, 0.0º C, 0.0º C, 0.0º C, 0.0º C, 0.6º C, 0.6º C, 0.9º C and 0.9º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-598417 recovered above the upper control limit for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Naphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-598435 and analytical batch 400-598417 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 400-598435 and analytical batch 400-598417 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 400-598435 and analytical batch 400-598418 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260B: The matrix spike (MS) recoveries for preparation batch 400-598435 and analytical batch 400-598418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: S-18 (400-227959-3) and S-17 (400-227959-4). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-599365 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: S-17 (400-227957-2). Elevated reporting limits (RLs) are provided.

Method 8260B: The continuing calibration verification (CCV) associated with batch 400-598417 recovered above the upper control limit for Naphthalene. The samples associated with this CCV were non-detects for the affected analyte with the exception of sample S-8 (400-227957-3) which contained a detection due to carryover. Since the result for Naphthalene was well below the Virginia action level and the holding time had expired, reanalysis was not performed.

Method 8260B: One of three surrogate recoveries for the following sample was outside control limits: S-18 (400-227957-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 400-598258 and analytical batch 400-598504 recovered outside control limits for the following analytes: Indeno[1,2,3-cd]pyrene, Benzo[g,h,i]perylene, 4,6-Dinitro-2-methylphenol and Dibenz(a,h)anthracene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the

Job ID: 400-227445-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-598571 recovered outside acceptance criteria, low biased, for Hexachloroethane, Acetophenone, Nitrobenzene, Bis(2-chloroethyl)ether, Phenol, Isophorone, 2;2;-oxybis[1-chloropropane], N-Nitrosodi-n-propylamine, Hexachlorocyclopentadiene, 2-Chlorophenol, Bis(2-chloroethoxy)methane, 3 & 4 Methylphenol and 2,4-Dimethylphenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-598258 and analytical batch 400-598504 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-598905 recovered above the upper control limit for 4-Nitrophenol, Benzo[b]fluoranthene, Benzo[k]fluoranthene, 4,6-Dinitro-2-methylphenol, Benzo[a]pyrene, Dibenz(a,h)anthracene and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: S-16 (400-227994-2), S-26 (400-227994-3) and S-27 (400-227994-4). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-598905 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: Surrogate recovery for the following sample was outside control limits: S-16 (400-227994-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-598902 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-598902 recovered outside acceptance criteria, low biased, for Caprolactam. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-598666 and analytical batch 400-598902 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method 8015C: The following sample was diluted because the base dilution for methanol preserved soil analysis is 1:50: S-5 (400-227628-5).

Method 8015C: The following sample was diluted because the base dilution for methanol preserved soil analysis is 1:50: S-9 (400-227842-2).

Method 8015C: All available Voa vials for samples S-10 (400-227959-1) and S-10 (400-227959-2) were filled to about 80% of the container with sand. Aqueous layer at the top was analyzed.

Method 8015C: The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample container: S-10 (400-227959-1). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 400-227445-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

GC Semi VOA

Method 8015C: The following sample was diluted to bring the concentration of target analytes within the calibration range: S-19 (400-227446-1). Elevated reporting limits (RLs) are provided.

Method 8015C: Surrogate recovery for the following sample was outside control limits: S-19 (400-227446-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-598578 and analytical batch 400-598756 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28].

Method 8015C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-598578 and analytical batch 400-598756.

Method 8081B: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: (LCS 400-597549/2-A) and (MB 400-597549/1-A). These results have been reported and qualified.

Method 8081B: The continuing calibration verification (CCV) associated with batch 400-598093 recovered above the upper control limit for Endrin. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: S-26 (400-227994-3) and S-27 (400-227994-4). Elevated reporting limits (RLs) are provided.

Method 8081B: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: S-28 (400-227627-8). These results have been reported and qualified.

Method 8151A: The following samples were diluted due to the nature of the sample matrix: S-26 (400-227994-3) and S-27 (400-227994-4). Elevated reporting limits (RLs) are provided.

Method 8151A: The initial calibration verification (ICV) result for batch 400-599164 was above the upper control limit. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-599543 and analytical batch 400-599890 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-599462 and analytical batch 400-599470 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: Due to the matrix, the following sample could not be concentrated to the final method required volume: S-16 (400-227994-2). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-19 — Lab Sample ID: 400-227445-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	290		120		ug/L	1		8015C	Total/NA

Client Sample ID: S-20 — Lab Sample ID: 400-227445-2

No Detections.

Client Sample ID: S-21 — Lab Sample ID: 400-227445-3

No Detections.

Client Sample ID: S-24 — Lab Sample ID: 400-227445-4

No Detections.

Client Sample ID: S-25 — Lab Sample ID: 400-227445-5

No Detections.

Client Sample ID: S-19 — Lab Sample ID: 400-227446-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16000		280		mg/Kg	50	☼	8015C	Total/NA

Client Sample ID: S-20 — Lab Sample ID: 400-227446-2

No Detections.

Client Sample ID: S-21 — Lab Sample ID: 400-227446-3

No Detections.

Client Sample ID: S-24 — Lab Sample ID: 400-227446-4

No Detections.

Client Sample ID: S-25 — Lab Sample ID: 400-227446-5

No Detections.

Client Sample ID: S-1 — Lab Sample ID: 400-227627-1

No Detections.

Client Sample ID: S-2 — Lab Sample ID: 400-227627-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	500		130		ug/L	1		8015C	Total/NA

Client Sample ID: S-3 — Lab Sample ID: 400-227627-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	300		120		ug/L	1		8015C	Total/NA

Client Sample ID: S-4 — Lab Sample ID: 400-227627-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	430		100		ug/L	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	310		130		ug/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-5 — Lab Sample ID: 400-227627-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	310		100		ug/L	1		8015C	Total/NA

Client Sample ID: S-6 — Lab Sample ID: 400-227627-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.5		1.0		ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	280		120		ug/L	1		8015C	Total/NA

Client Sample ID: S-22 — Lab Sample ID: 400-227627-7

No Detections.

Client Sample ID: S-28 — Lab Sample ID: 400-227627-8

No Detections.

Client Sample ID: S-29 — Lab Sample ID: 400-227627-9

No Detections.

Client Sample ID: S-1 — Lab Sample ID: 400-227628-1

No Detections.

Client Sample ID: S-2 — Lab Sample ID: 400-227628-2

No Detections.

Client Sample ID: S-3 — Lab Sample ID: 400-227628-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270		5.3		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-4 — Lab Sample ID: 400-227628-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	30		5.6		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-5 — Lab Sample ID: 400-227628-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	20		6.7		mg/Kg	50	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	69		6.0		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-6 — Lab Sample ID: 400-227628-6

No Detections.

Client Sample ID: S-22 — Lab Sample ID: 400-227628-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12		6.1		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-28 — Lab Sample ID: 400-227628-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample ID: S-29 — Lab Sample ID: 400-227628-9

No Detections.

Client Sample ID: S-23 — Lab Sample ID: 400-227841-1

No Detections.

Client Sample ID: S-9 — Lab Sample ID: 400-227841-2

No Detections.

Client Sample ID: S-11 — Lab Sample ID: 400-227841-3

No Detections.

Client Sample ID: S-12 — Lab Sample ID: 400-227841-4

No Detections.

Client Sample ID: S-13 — Lab Sample ID: 400-227841-5

No Detections.

Client Sample ID: S-23 — Lab Sample ID: 400-227842-1

No Detections.

Client Sample ID: S-9 — Lab Sample ID: 400-227842-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	78		6.3		mg/Kg	50	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	260		5.8		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-11 — Lab Sample ID: 400-227842-3

No Detections.

Client Sample ID: S-12 — Lab Sample ID: 400-227842-4

No Detections.

Client Sample ID: S-10 — Lab Sample ID: 400-227842-5

No Detections.

Client Sample ID: S-13 — Lab Sample ID: 400-227842-6

No Detections.

Client Sample ID: S-18 — Lab Sample ID: 400-227957-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.0066		0.0065		mg/Kg	1	☼	8260B	Total/NA
Ethylbenzene	0.044		0.0065		mg/Kg	1	☼	8260B	Total/NA
Isopropylbenzene	0.21		0.0065		mg/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	0.13		0.0065		mg/Kg	1	☼	8260B	Total/NA
m-Xylene & p-Xylene	9.8		6.5		ug/Kg	1	☼	8260B	Total/NA
Naphthalene	120		5.8		ug/Kg	1	☼	8260B	Total/NA
Toluene	0.015		0.0065		mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.39		0.38		mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17 — Lab Sample ID: 400-227957-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	330		270		ug/Kg	50	☼	8260B	Total/NA
Toluene	8.2		0.27		mg/Kg	50	☼	8260B	Total/NA
2-Methylnaphthalene	0.58		0.34		mg/Kg	1	☼	8270D	Total/NA
2-Methylphenol	0.36		0.34		mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.71		0.34		mg/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-8 — Lab Sample ID: 400-227957-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.9		5.6		ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-7 — Lab Sample ID: 400-227957-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		5.6		mg/Kg	1	☼	8015C	Total/NA

Client Sample ID: S-14 — Lab Sample ID: 400-227957-5

No Detections.

Client Sample ID: S-10 — Lab Sample ID: 400-227959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.3		1.0		ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	780	*1	610		ug/L	1		8015C	Total/NA

Client Sample ID: S-10 — Lab Sample ID: 400-227959-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: S-18 — Lab Sample ID: 400-227959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	380		250		ug/L	250		8260B	Total/NA
Toluene	68000		250		ug/L	250		8260B	Total/NA
2-Methylphenol	84		14		ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	97		28		ug/L	1		8270D	Total/NA
Benzaldehyde	18		14		ug/L	1		8270D	Total/NA
Naphthalene	23		14		ug/L	1		8270D	Total/NA

Client Sample ID: S-17 — Lab Sample ID: 400-227959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	280000		2000		ug/L	2000		8260B	Total/NA
2-Methylnaphthalene	17		11		ug/L	1		8270D	Total/NA
2-Methylphenol	170		11		ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	110		22		ug/L	1		8270D	Total/NA
Naphthalene	59		11		ug/L	1		8270D	Total/NA

Client Sample ID: S-8 — Lab Sample ID: 400-227959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	120		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-7 — Lab Sample ID: 400-227959-6

No Detections.

Client Sample ID: S-15 — Lab Sample ID: 400-227994-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	8.4		1.0		mg/Kg	1	☼	6010B	Total/NA
Chromium	2.3		1.0		mg/Kg	1	☼	6010B	Total/NA
Lead	6.6		1.0		mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: S-16 — Lab Sample ID: 400-227994-2

No Detections.

Client Sample ID: S-26 — Lab Sample ID: 400-227994-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	0.011		0.010		mg/Kg	5	☼	8081B	Total/NA
4,4'-DDE	0.090		0.010		mg/Kg	5	☼	8081B	Total/NA
4,4'-DDT	0.029		0.010		mg/Kg	5	☼	8081B	Total/NA
Arsenic	6.9		1.2		mg/Kg	1	☼	6010B	Total/NA
Barium	66		1.2		mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	71		1.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.069		0.018		mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	11		6.0		mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-27 — Lab Sample ID: 400-227994-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.041		0.041		mg/Kg	20	☼	8081B	Total/NA
Arsenic	5.4		1.3		mg/Kg	1	☼	6010B	Total/NA
Barium	76		1.3		mg/Kg	1	☼	6010B	Total/NA
Chromium	10		1.3		mg/Kg	1	☼	6010B	Total/NA
Lead	86		1.3		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.047		0.020		mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	10		6.3		mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227445-1	S-19	Water	10/17/22 15:10	10/18/22 09:24
400-227445-2	S-20	Water	10/17/22 14:15	10/18/22 09:24
400-227445-3	S-21	Water	10/17/22 12:30	10/18/22 09:24
400-227445-4	S-24	Water	10/17/22 10:00	10/18/22 09:24
400-227445-5	S-25	Water	10/17/22 11:00	10/18/22 09:24
400-227446-1	S-19	Solid	10/17/22 14:40	10/18/22 09:24
400-227446-2	S-20	Solid	10/17/22 13:45	10/18/22 09:24
400-227446-3	S-21	Solid	10/17/22 12:00	10/18/22 09:24
400-227446-4	S-24	Solid	10/17/22 09:30	10/18/22 09:24
400-227446-5	S-25	Solid	10/17/22 10:30	10/18/22 09:24
400-227627-1	S-1	Water	10/18/22 10:10	10/21/22 09:56
400-227627-2	S-2	Water	10/18/22 09:30	10/21/22 09:56
400-227627-3	S-3	Water	10/18/22 12:50	10/21/22 09:56
400-227627-4	S-4	Water	10/18/22 11:30	10/21/22 09:56
400-227627-5	S-5	Water	10/18/22 10:40	10/21/22 09:56
400-227627-6	S-6	Water	10/18/22 12:10	10/21/22 09:56
400-227627-7	S-22	Water	10/18/22 16:10	10/21/22 09:56
400-227627-8	S-28	Water	10/18/22 15:10	10/21/22 09:56
400-227627-9	S-29	Water	10/18/22 14:00	10/21/22 09:56
400-227628-1	S-1	Solid	10/18/22 10:00	10/20/22 09:56
400-227628-2	S-2	Solid	10/18/22 09:10	10/20/22 09:56
400-227628-3	S-3	Solid	10/18/22 12:40	10/20/22 09:56
400-227628-4	S-4	Solid	10/18/22 11:15	10/20/22 09:56
400-227628-5	S-5	Solid	10/18/22 10:35	10/20/22 09:56
400-227628-6	S-6	Solid	10/18/22 12:00	10/20/22 09:56
400-227628-7	S-22	Solid	10/18/22 16:10	10/20/22 09:56
400-227628-8	S-28	Solid	10/18/22 15:00	10/20/22 09:56
400-227628-9	S-29	Solid	10/18/22 13:40	10/20/22 09:56
400-227841-1	S-23	Water	10/24/22 09:30	10/26/22 09:12
400-227841-2	S-9	Water	10/24/22 10:45	10/26/22 09:12
400-227841-3	S-11	Water	10/24/22 11:45	10/26/22 09:12
400-227841-4	S-12	Water	10/24/22 12:50	10/26/22 09:12
400-227841-5	S-13	Water	10/24/22 15:50	10/26/22 09:12
400-227842-1	S-23	Solid	10/24/22 09:10	10/26/22 09:12
400-227842-2	S-9	Solid	10/24/22 10:15	10/26/22 09:12
400-227842-3	S-11	Solid	10/24/22 11:30	10/26/22 09:12
400-227842-4	S-12	Solid	10/24/22 12:30	10/26/22 09:12
400-227842-5	S-10	Solid	10/24/22 13:30	10/26/22 09:12
400-227842-6	S-13	Solid	10/24/22 15:20	10/26/22 09:12
400-227957-1	S-18	Solid	10/25/22 09:30	10/27/22 09:24
400-227957-2	S-17	Solid	10/25/22 11:15	10/27/22 09:24
400-227957-3	S-8	Solid	10/25/22 12:40	10/27/22 09:24
400-227957-4	S-7	Solid	10/25/22 13:55	10/27/22 09:24
400-227957-5	S-14	Solid	10/25/22 15:30	10/27/22 09:24
400-227959-1	S-10	Water	10/24/22 13:45	10/27/22 09:24
400-227959-2	S-10	Water	10/25/22 16:30	10/27/22 09:24
400-227959-3	S-18	Water	10/25/22 10:20	10/27/22 09:24
400-227959-4	S-17	Water	10/25/22 11:35	10/27/22 09:24
400-227959-5	S-8	Water	10/25/22 13:00	10/27/22 09:24
400-227959-6	S-7	Water	10/25/22 14:10	10/27/22 09:24
400-227994-1	S-15	Solid	10/27/22 09:30	10/28/22 08:59
400-227994-2	S-16	Solid	10/27/22 09:45	10/28/22 08:59
400-227994-3	S-26	Solid	10/27/22 10:30	10/28/22 08:59
400-227994-4	S-27	Solid	10/27/22 10:20	10/28/22 08:59

Client Sample Results

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-19

Date Collected: 10/17/22 15:10
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-1

Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	290		120		ug/L		10/21/22 16:09	10/24/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*21 - 150*	*10/21/22 16:09*	*10/24/22 13:52*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-20
Date Collected: 10/17/22 14:15
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-2
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<140		140		ug/L		10/21/22 16:09	10/24/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*60*		*21 - 150*	*10/21/22 16:09*	*10/24/22 14:08*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-21

Date Collected: 10/17/22 12:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-3

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 11:41*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/21/22 16:09	10/24/22 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*70*		*21 - 150*	*10/21/22 16:09*	*10/24/22 14:25*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-24
Date Collected: 10/17/22 10:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-4
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/21/22 16:09	10/24/22 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*21 - 150*	*10/21/22 16:09*	*10/24/22 14:41*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-25
Date Collected: 10/17/22 11:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-5
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/21/22 16:09	10/24/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*63*		*21 - 150*	*10/21/22 16:09*	*10/24/22 14:57*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-19

Date Collected: 10/17/22 14:40
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-1

Matrix: Solid
Percent Solids: 87.1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16000		280		mg/Kg	☼	10/19/22 10:15	10/24/22 13:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*255*	*S1+*	*27 - 150*	*10/19/22 10:15*	*10/24/22 13:32*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		0.01		%			10/20/22 09:51	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-20

Date Collected: 10/17/22 13:45
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-2

Matrix: Solid
Percent Solids: 77.7

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<6.2		6.2		mg/Kg	☼	10/19/22 10:15	10/20/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*27 - 150*	*10/19/22 10:15*	*10/20/22 12:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**22.3**		0.01		%			10/20/22 09:51	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-21

Date Collected: 10/17/22 12:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-3

Matrix: Solid
Percent Solids: 82.5

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	10/31/22 08:54	10/31/22 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*10/31/22 08:54*	*10/31/22 11:10*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.8		5.8		mg/Kg	☼	10/19/22 10:15	10/20/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*27 - 150*	*10/19/22 10:15*	*10/20/22 12:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.5**		0.01		%			10/20/22 09:51	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-24

Date Collected: 10/17/22 09:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-4

Matrix: Solid
Percent Solids: 76.8

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<6.2		6.2		mg/Kg	☼	10/19/22 10:15	10/20/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*27 - 150*	*10/19/22 10:15*	*10/20/22 12:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**23.2**		0.01		%			10/20/22 09:51	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-25

Date Collected: 10/17/22 10:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-5

Matrix: Solid
Percent Solids: 77.2

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<6.4		6.4		mg/Kg	☼	10/19/22 10:15	10/20/22 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*27 - 150*	*10/19/22 10:15*	*10/20/22 13:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**22.8**		0.01		%			10/20/22 09:51	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-1

Date Collected: 10/18/22 10:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			10/26/22 11:00	1
Toluene	<1.0		1.0		ug/L			10/26/22 11:00	1
Ethylbenzene	<1.0		1.0		ug/L			10/26/22 11:00	1
Xylenes, Total	<10		10		ug/L			10/26/22 11:00	1
Naphthalene	<5.0		5.0		ug/L			10/26/22 11:00	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			10/26/22 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*10/26/22 11:00*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*10/26/22 11:00*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*10/26/22 11:00*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 16:50*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<120		120		ug/L		10/25/22 14:42	10/26/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*21 - 150*	*10/25/22 14:42*	*10/26/22 15:02*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-2

Date Collected: 10/18/22 09:30
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-2

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 17:21*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**500**		130		ug/L		10/25/22 14:42	10/26/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*55*		*21 - 150*	*10/25/22 14:42*	*10/26/22 15:19*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-3
Date Collected: 10/18/22 12:50
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-3
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	300		120		ug/L		10/25/22 14:42	10/26/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*21 - 150*	*10/25/22 14:42*	*10/26/22 15:35*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-4

Date Collected: 10/18/22 11:30
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-4

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	430		100		ug/L			10/31/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 17:52*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	310		130		ug/L		10/25/22 14:42	10/26/22 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*68*		*21 - 150*	*10/25/22 14:42*	*10/26/22 15:51*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-5

Date Collected: 10/18/22 10:40
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-5

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	310		100		ug/L			10/31/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*86*		*69 - 147*		*10/31/22 18:23*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<120		120		ug/L		10/25/22 14:42	10/26/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*65*		*21 - 150*	*10/25/22 14:42*	*10/26/22 16:08*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-6

Date Collected: 10/18/22 12:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			10/26/22 11:24	1
Toluene	<1.0		1.0		ug/L			10/26/22 11:24	1
Ethylbenzene	<1.0		1.0		ug/L			10/26/22 11:24	1
Xylenes, Total	<10		10		ug/L			10/26/22 11:24	1
Naphthalene	<5.0		5.0		ug/L			10/26/22 11:24	1
Methyl tert-butyl ether	**3.5**		1.0		ug/L			10/26/22 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*10/26/22 11:24*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*10/26/22 11:24*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*10/26/22 11:24*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*69 - 147*		*10/31/22 18:54*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**		120		ug/L		10/25/22 14:42	10/26/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*80*		*21 - 150*	*10/25/22 14:42*	*10/26/22 16:24*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-22

Date Collected: 10/18/22 16:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-7

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 19:26*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<140		140		ug/L		10/25/22 14:42	10/26/22 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*21 - 150*	*10/25/22 14:42*	*10/26/22 17:08*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-28
Date Collected: 10/18/22 15:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-8
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
alpha-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
beta-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
delta-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
gamma-BHC (Lindane)	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
cis-Chlordane	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
trans-Chlordane	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
4,4'-DDD	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
4,4'-DDE	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
4,4'-DDT	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Dieldrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endosulfan I	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endosulfan II	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endosulfan sulfate	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endrin aldehyde	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Endrin ketone	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Heptachlor	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Heptachlor epoxide	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:24	1
Methoxychlor	<0.045		0.045		ug/L		10/25/22 08:49	11/03/22 22:24	1
Toxaphene	<1.1		1.1		ug/L		10/25/22 08:49	11/03/22 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*	*S1-*	*40 - 130*	*10/25/22 08:49*	*11/03/22 22:24*	*1*
Tetrachloro-m-xylene	*79*		*40 - 130*	*10/25/22 08:49*	*11/03/22 22:24*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-29

Date Collected: 10/18/22 14:00
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-9

Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
alpha-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
beta-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
delta-BHC	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
gamma-BHC (Lindane)	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
cis-Chlordane	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
trans-Chlordane	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
4,4'-DDD	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
4,4'-DDE	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
4,4'-DDT	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Dieldrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endosulfan I	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endosulfan II	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endosulfan sulfate	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endrin	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endrin aldehyde	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Endrin ketone	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Heptachlor	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Heptachlor epoxide	<0.018		0.018		ug/L		10/25/22 08:49	11/03/22 22:52	1
Methoxychlor	<0.045		0.045		ug/L		10/25/22 08:49	11/03/22 22:52	1
Toxaphene	<1.1		1.1		ug/L		10/25/22 08:49	11/03/22 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*40 - 130*	*10/25/22 08:49*	*11/03/22 22:52*	*1*
Tetrachloro-m-xylene	*85*		*40 - 130*	*10/25/22 08:49*	*11/03/22 22:52*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-1

Date Collected: 10/18/22 10:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-1

Matrix: Solid
Percent Solids: 81.8

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0061		0.0061		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1
Toluene	<0.0061		0.0061		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1
Ethylbenzene	<0.0061		0.0061		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1
Naphthalene	<0.0061		0.0061		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1
Methyl tert-butyl ether	<0.0061		0.0061		mg/Kg	☼	10/26/22 08:52	10/26/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*10/26/22 08:52*	*10/26/22 11:59*	*1*
Dibromofluoromethane	*103*		*77 - 127*	*10/26/22 08:52*	*10/26/22 11:59*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/26/22 08:52*	*10/26/22 11:59*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.12		0.12		mg/Kg	☼	10/31/22 08:54	10/31/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*10/31/22 08:54*	*10/31/22 19:57*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<6.1		6.1		mg/Kg	☼	10/24/22 13:51	10/25/22 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*27 - 150*	*10/24/22 13:51*	*10/25/22 23:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.2**		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-2

Date Collected: 10/18/22 09:10
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-2

Matrix: Solid
Percent Solids: 88.7

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.10		0.10		mg/Kg	☼	10/31/22 08:54	10/31/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*10/31/22 08:54*	*10/31/22 20:28*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.4		5.4		mg/Kg	☼	10/24/22 13:51	10/26/22 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*62*		*27 - 150*	*10/24/22 13:51*	*10/26/22 00:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.3**		0.01		%			10/25/22 08:32	1

Client Sample Results

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-3

Date Collected: 10/18/22 12:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-3

Matrix: Solid
Percent Solids: 94.5

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		5.3		mg/Kg	☼	10/24/22 13:51	10/26/22 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*27 - 150*	*10/24/22 13:51*	*10/26/22 00:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-4

Date Collected: 10/18/22 11:15
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-4

Matrix: Solid
Percent Solids: 86.7

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	10/31/22 08:54	10/31/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*10/31/22 08:54*	*10/31/22 20:59*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		5.6		mg/Kg	☼	10/24/22 13:51	10/26/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*27 - 150*	*10/24/22 13:51*	*10/26/22 00:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.3**		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-5

Date Collected: 10/18/22 10:35
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-5

Matrix: Solid
Percent Solids: 82.8

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20		6.7		mg/Kg	☼	10/31/22 08:54	10/31/22 21:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*88*		*65 - 125*	*10/31/22 08:54*	*10/31/22 21:31*	*50*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	69		6.0		mg/Kg	☼	10/24/22 13:51	10/26/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*27 - 150*	*10/24/22 13:51*	*10/26/22 01:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.2		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-6

Date Collected: 10/18/22 12:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-6

Matrix: Solid
Percent Solids: 85.8

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0059		0.0059		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1
Toluene	<0.0059		0.0059		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1
Ethylbenzene	<0.0059		0.0059		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1
Naphthalene	<0.0059		0.0059		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1
Methyl tert-butyl ether	<0.0059		0.0059		mg/Kg	☼	10/26/22 08:52	10/26/22 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*	*10/26/22 08:52*	*10/26/22 12:24*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*10/26/22 08:52*	*10/26/22 12:24*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/26/22 08:52*	*10/26/22 12:24*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	10/31/22 08:54	10/31/22 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*10/31/22 08:54*	*10/31/22 22:33*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.6		5.6		mg/Kg	☼	10/24/22 13:51	10/26/22 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*27 - 150*	*10/24/22 13:51*	*10/26/22 01:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.2**		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-22

Date Collected: 10/18/22 16:10
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-7

Matrix: Solid
Percent Solids: 79.2

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.12		0.12		mg/Kg	☼	10/31/22 08:54	10/31/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*10/31/22 08:54*	*10/31/22 23:04*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		6.1		mg/Kg	☼	10/24/22 13:51	10/26/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*27 - 150*	*10/24/22 13:51*	*10/26/22 01:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.8**		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-28

Date Collected: 10/18/22 15:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-8

Matrix: Solid
Percent Solids: 79.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
alpha-BHC	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
beta-BHC	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
delta-BHC	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
gamma-BHC (Lindane)	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
cis-Chlordane	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
trans-Chlordane	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
4,4'-DDD	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
4,4'-DDE	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
4,4'-DDT	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Dieldrin	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endosulfan I	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endosulfan II	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endosulfan sulfate	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endrin	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endrin aldehyde	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Endrin ketone	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Heptachlor	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Heptachlor epoxide	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Methoxychlor	<0.0021		0.0021		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1
Toxaphene	<0.13		0.13		mg/Kg	☼	10/24/22 11:49	10/28/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*26 - 129*	*10/24/22 11:49*	*10/28/22 01:05*	*1*
Tetrachloro-m-xylene	*50*		*31 - 122*	*10/24/22 11:49*	*10/28/22 01:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.1**		0.01		%			10/25/22 08:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-29

Date Collected: 10/18/22 13:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-9

Matrix: Solid
Percent Solids: 86.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
alpha-BHC	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
beta-BHC	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
delta-BHC	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
gamma-BHC (Lindane)	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
cis-Chlordane	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
trans-Chlordane	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
4,4'-DDD	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
4,4'-DDE	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
4,4'-DDT	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Dieldrin	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endosulfan I	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endosulfan II	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endosulfan sulfate	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endrin	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endrin aldehyde	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Endrin ketone	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Heptachlor	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Heptachlor epoxide	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Methoxychlor	<0.0019		0.0019		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1
Toxaphene	<0.11		0.11		mg/Kg	☼	10/24/22 11:49	10/28/22 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*26 - 129*	*10/24/22 11:49*	*10/28/22 01:31*	*1*
Tetrachloro-m-xylene	*60*		*31 - 122*	*10/24/22 11:49*	*10/28/22 01:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.0**		0.01		%			10/25/22 09:30	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-23
Date Collected: 10/24/22 09:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-1
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<120		120		ug/L		10/28/22 14:10	11/01/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*21 - 150*	*10/28/22 14:10*	*11/01/22 23:31*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-9

Date Collected: 10/24/22 10:45
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-2

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			11/05/22 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*11/05/22 06:35*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130	*1	130		ug/L		10/31/22 13:37	11/01/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*21 - 150*	*10/31/22 13:37*	*11/01/22 20:12*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-11

Date Collected: 10/24/22 11:45
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-3

Matrix: Water

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			11/04/22 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*69 - 147*		*11/04/22 21:45*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130	*1	130		ug/L		10/31/22 13:37	11/01/22 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*21 - 150*	*10/31/22 13:37*	*11/01/22 20:29*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-12
Date Collected: 10/24/22 12:50
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-4
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130	*1	130		ug/L		10/31/22 13:37	11/01/22 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*21 - 150*	*10/31/22 13:37*	*11/01/22 20:45*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-13
Date Collected: 10/24/22 15:50
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-5
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<120	*1	120		ug/L		10/31/22 13:37	11/01/22 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*21 - 150*	*10/31/22 13:37*	*11/01/22 21:02*	*1*

Client Sample Results

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-23

Date Collected: 10/24/22 09:10
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-1

Matrix: Solid
Percent Solids: 80.7

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<6.1		6.1		mg/Kg	☼	10/27/22 12:23	10/28/22 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*114*		*27 - 150*	*10/27/22 12:23*	*10/28/22 17:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.3**		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-9

Date Collected: 10/24/22 10:15
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-2

Matrix: Solid
Percent Solids: 84.9

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	78		6.3		mg/Kg	☼	11/04/22 10:39	11/04/22 17:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*84*		*65 - 125*	*11/04/22 10:39*	*11/04/22 17:35*	*50*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	260		5.8		mg/Kg	☼	10/27/22 12:23	10/28/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*120*		*27 - 150*	*10/27/22 12:23*	*10/28/22 17:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.1		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-11

Date Collected: 10/24/22 11:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-3

Matrix: Solid
Percent Solids: 80.6

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.12		0.12		mg/Kg	☼	11/03/22 08:45	11/03/22 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*11/03/22 08:45*	*11/03/22 16:29*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.8		5.8		mg/Kg	☼	10/27/22 12:23	10/28/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*112*		*27 - 150*	*10/27/22 12:23*	*10/28/22 18:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.4**		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-12
Date Collected: 10/24/22 12:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-4
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.6		5.6		mg/Kg	☼	10/27/22 12:23	10/28/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*139*		*27 - 150*	*10/27/22 12:23*	*10/28/22 18:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.4**		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-10

Date Collected: 10/24/22 13:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-5

Matrix: Solid
Percent Solids: 90.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0059		0.0059		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1
Toluene	<0.0059		0.0059		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1
Ethylbenzene	<0.0059		0.0059		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1
Naphthalene	<0.0059		0.0059		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1
Methyl tert-butyl ether	<0.0059		0.0059		mg/Kg	☼	10/29/22 08:39	10/29/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*	*10/29/22 08:39*	*10/29/22 18:12*	*1*
Dibromofluoromethane	*110*		*77 - 127*	*10/29/22 08:39*	*10/29/22 18:12*	*1*
Toluene-d8 (Surr)	*79*		*76 - 127*	*10/29/22 08:39*	*10/29/22 18:12*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	11/04/22 10:39	11/04/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*11/04/22 10:39*	*11/04/22 17:04*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.3		5.3		mg/Kg	☼	10/27/22 12:23	10/28/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*123*		*27 - 150*	*10/27/22 12:23*	*10/28/22 18:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.9**		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-13
Date Collected: 10/24/22 15:20
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-6
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.2		5.2		mg/Kg	☼	10/27/22 12:23	10/28/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*106*		*27 - 150*	*10/27/22 12:23*	*10/28/22 18:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.2**		0.01		%			10/28/22 10:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18
Date Collected: 10/25/22 09:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-1
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,1,2,2-Tetrachloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,1,2-Trichloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,1-Dichloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,1-Dichloroethene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2,3-Trichlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2,4-Trichlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2-Dibromo-3-Chloropropane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2-Dichlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2-Dichloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,2-Dichloropropane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,3-Dichlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
1,4-Dichlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
2-Hexanone	<0.033		0.033		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Acetone	<0.033		0.033		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Benzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Bromodichloromethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Bromoform	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Bromomethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Carbon disulfide	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Carbon tetrachloride	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Chlorobenzene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Chlorobromomethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Chloroethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Chloroform	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Chloromethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
cis-1,2-Dichloroethene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
cis-1,3-Dichloropropene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Cyclohexane	**0.0066**		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Dibromochloromethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Dichlorodifluoromethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Ethylbenzene	**0.044**		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Ethylene Dibromide	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Isopropylbenzene	**0.21**		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Methyl acetate	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Methyl Ethyl Ketone	<0.033		0.033		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
methyl isobutyl ketone	<0.033		0.033		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Methyl tert-butyl ether	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Methylcyclohexane	**0.13**		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Methylene Chloride	<0.020		0.020		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
m-Xylene & p-Xylene	**9.8**		6.5		ug/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Naphthalene	**120**		5.8		ug/Kg	☼	11/07/22 11:10	11/07/22 16:42	1
o-Xylene	<6.5		6.5		ug/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Styrene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Tetrachloroethene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Toluene	**0.015**		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
trans-1,2-Dichloroethene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
trans-1,3-Dichloropropene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18
Date Collected: 10/25/22 09:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-1
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Trichlorofluoromethane	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Vinyl chloride	<0.0065		0.0065		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1
Xylenes, Total	<0.013		0.013		mg/Kg	☼	10/30/22 09:23	10/30/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*235*	*S1+*	*67 - 130*	*10/30/22 09:23*	*10/30/22 18:20*	*1*
4-Bromofluorobenzene	*68*		*67 - 130*	*11/07/22 11:10*	*11/07/22 16:42*	*1*
Dibromofluoromethane	*89*		*77 - 127*	*10/30/22 09:23*	*10/30/22 18:20*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*11/07/22 11:10*	*11/07/22 16:42*	*1*
Toluene-d8 (Surr)	*111*		*76 - 127*	*10/30/22 09:23*	*10/30/22 18:20*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*11/07/22 11:10*	*11/07/22 16:42*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4,5-Trichlorophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4,6-Trichlorophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4-Dichlorophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4-Dimethylphenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4-Dinitrophenol	<1.2		1.2		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,4-Dinitrotoluene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2,6-Dinitrotoluene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Chloronaphthalene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Chlorophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Methylnaphthalene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Methylphenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Nitroaniline	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
2-Nitrophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
3 & 4 Methylphenol	<0.77		0.77		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
3,3'-Dichlorobenzidine	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
3-Nitroaniline	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4,6-Dinitro-2-methylphenol	<0.38	*+	0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Bromophenyl phenyl ether	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Chloro-3-methylphenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Chloroaniline	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Chlorophenyl phenyl ether	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Nitroaniline	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
4-Nitrophenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Acenaphthene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Acenaphthylene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Acetophenone	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Anthracene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Atrazine	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzaldehyde	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzo[a]anthracene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzo[a]pyrene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzo[b]fluoranthene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzo[g,h,i]perylene	<0.38	*+	0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Benzo[k]fluoranthene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18
Date Collected: 10/25/22 09:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-1
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Bis(2-chloroethoxy)methane	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Bis(2-chloroethyl)ether	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Bis(2-ethylhexyl) phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Butyl benzyl phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Caprolactam	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Carbazole	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Chrysene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Dibenz(a,h)anthracene	<0.38	*+	0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Dibenzofuran	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Diethyl phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Dimethyl phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Di-n-butyl phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Di-n-octyl phthalate	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Fluoranthene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Fluorene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Hexachlorobenzene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Hexachlorobutadiene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Hexachlorocyclopentadiene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Hexachloroethane	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Indeno[1,2,3-cd]pyrene	<0.38	*+	0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Isophorone	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Naphthalene	**0.39**		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Nitrobenzene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
N-Nitrosodi-n-propylamine	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
N-Nitrosodiphenylamine	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Pentachlorophenol	<0.77		0.77		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Phenanthrene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Phenol	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1
Pyrene	<0.38		0.38		mg/Kg	☼	10/28/22 11:11	10/31/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 150*	*10/28/22 11:11*	*10/31/22 16:32*	*1*
2-Fluorobiphenyl	*75*		*27 - 127*	*10/28/22 11:11*	*10/31/22 16:32*	*1*
2-Fluorophenol (Surr)	*49*		*25 - 128*	*10/28/22 11:11*	*10/31/22 16:32*	*1*
Nitrobenzene-d5 (Surr)	*57*		*15 - 136*	*10/28/22 11:11*	*10/31/22 16:32*	*1*
Phenol-d5 (Surr)	*51*		*29 - 130*	*10/28/22 11:11*	*10/31/22 16:32*	*1*
Terphenyl-d14 (Surr)	*97*		*24 - 146*	*10/28/22 11:11*	*10/31/22 16:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.4**		0.01		%			10/31/22 15:58	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17
Date Collected: 10/25/22 11:15
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-2
Matrix: Solid
Percent Solids: 93.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,1,2,2-Tetrachloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,1,2-Trichloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,1-Dichloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,1-Dichloroethene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2,3-Trichlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2,4-Trichlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2-Dibromo-3-Chloropropane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2-Dichlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2-Dichloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,2-Dichloropropane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,3-Dichlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
1,4-Dichlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
2-Butanone (MEK)	<1.4		1.4		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
2-Hexanone	<1.4		1.4		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
4-Methyl-2-pentanone (MIBK)	<1.4		1.4		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Acetone	<1.4		1.4		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Benzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Bromoform	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Bromomethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Carbon disulfide	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Carbon tetrachloride	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Chlorobenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Chlorobromomethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Chloroethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Chloroform	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Chloromethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
cis-1,2-Dichloroethene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
cis-1,3-Dichloropropene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Cyclohexane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Dibromochloromethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Dichlorobromomethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Dichlorodifluoromethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Ethylbenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Ethylene Dibromide	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Isopropylbenzene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Methyl acetate	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Methyl tert-butyl ether	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Methylcyclohexane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Methylene Chloride	<0.82		0.82		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
m-Xylene & p-Xylene	**330**		270		ug/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Naphthalene	<270		270		ug/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
o-Xylene	<270		270		ug/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Styrene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Tetrachloroethene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Toluene	**8.2**		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
trans-1,2-Dichloroethene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
trans-1,3-Dichloropropene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50

Client Sample ID: S-17
Date Collected: 10/25/22 11:15
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-2
Matrix: Solid
Percent Solids: 93.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Trichlorofluoromethane	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Vinyl chloride	<0.27		0.27		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50
Xylenes, Total	<0.55		0.55		mg/Kg	☼	10/30/22 09:23	10/30/22 19:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*	*10/30/22 09:23*	*10/30/22 19:10*	*50*
Dibromofluoromethane	*87*		*77 - 127*	*10/30/22 09:23*	*10/30/22 19:10*	*50*
Toluene-d8 (Surr)	*101*		*76 - 127*	*10/30/22 09:23*	*10/30/22 19:10*	*50*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4,5-Trichlorophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4,6-Trichlorophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4-Dichlorophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4-Dimethylphenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4-Dinitrophenol	<1.0		1.0		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,4-Dinitrotoluene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2,6-Dinitrotoluene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Chloronaphthalene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Chlorophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Methylnaphthalene	**0.58**		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Methylphenol	**0.36**		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Nitroaniline	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
2-Nitrophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
3 & 4 Methylphenol	<0.68		0.68		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
3,3'-Dichlorobenzidine	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
3-Nitroaniline	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4,6-Dinitro-2-methylphenol	<0.34	*+	0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Bromophenyl phenyl ether	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Chloro-3-methylphenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Chloroaniline	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Chlorophenyl phenyl ether	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Nitroaniline	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
4-Nitrophenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Acenaphthene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Acenaphthylene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Acetophenone	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Anthracene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Atrazine	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzaldehyde	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzo[a]anthracene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzo[a]pyrene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzo[b]fluoranthene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzo[g,h,i]perylene	<0.34	*+	0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Benzo[k]fluoranthene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
bis (2-chloroisopropyl) ether	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Bis(2-chloroethoxy)methane	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Bis(2-chloroethyl)ether	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17
Date Collected: 10/25/22 11:15
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-2
Matrix: Solid
Percent Solids: 93.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Butyl benzyl phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Caprolactam	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Carbazole	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Chrysene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Dibenz(a,h)anthracene	<0.34	*+	0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Dibenzofuran	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Diethyl phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Dimethyl phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Di-n-butyl phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Di-n-octyl phthalate	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Fluoranthene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Fluorene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Hexachlorobenzene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Hexachlorobutadiene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Hexachlorocyclopentadiene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Hexachloroethane	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Indeno[1,2,3-cd]pyrene	<0.34	*+	0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Isophorone	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Naphthalene	**0.71**		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Nitrobenzene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
N-Nitrosodi-n-propylamine	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
N-Nitrosodiphenylamine	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Pentachlorophenol	<0.68		0.68		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Phenanthrene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Phenol	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1
Pyrene	<0.34		0.34		mg/Kg	☼	10/28/22 11:11	10/31/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*39*		*10 - 150*	*10/28/22 11:11*	*10/31/22 16:58*	*1*
2-Fluorobiphenyl	*80*		*27 - 127*	*10/28/22 11:11*	*10/31/22 16:58*	*1*
2-Fluorophenol (Surr)	*51*		*25 - 128*	*10/28/22 11:11*	*10/31/22 16:58*	*1*
Nitrobenzene-d5 (Surr)	*76*		*15 - 136*	*10/28/22 11:11*	*10/31/22 16:58*	*1*
Phenol-d5 (Surr)	*47*		*29 - 130*	*10/28/22 11:11*	*10/31/22 16:58*	*1*
Terphenyl-d14 (Surr)	*83*		*24 - 146*	*10/28/22 11:11*	*10/31/22 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.1**		0.01		%			10/31/22 15:58	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-8
Date Collected: 10/25/22 12:40
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-3
Matrix: Solid
Percent Solids: 90.4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,1,2-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,1-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,1-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2,3-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2,4-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2-Dibromo-3-Chloropropane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,2-Dichloropropane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,3-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
1,4-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
2-Hexanone	<0.028		0.028		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Acetone	<0.028		0.028		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Benzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Bromodichloromethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Bromoform	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Bromomethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Carbon disulfide	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Carbon tetrachloride	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Chlorobenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Chlorobromomethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Chloroethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Chloroform	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Chloromethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
cis-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
cis-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Cyclohexane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Dibromochloromethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Dichlorodifluoromethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Ethylene Dibromide	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Isopropylbenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Methyl acetate	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Methyl Ethyl Ketone	<0.028		0.028		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
methyl isobutyl ketone	<0.028		0.028		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Methyl tert-butyl ether	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Methylcyclohexane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Methylene Chloride	<0.017		0.017		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
m-Xylene & p-Xylene	<5.6		5.6		ug/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Naphthalene	**6.9**		5.6		ug/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
o-Xylene	<5.6		5.6		ug/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Styrene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Tetrachloroethene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Toluene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
trans-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
trans-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-8

Date Collected: 10/25/22 12:40
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-3

Matrix: Solid
Percent Solids: 90.4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Trichlorofluoromethane	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Vinyl chloride	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/30/22 09:23	10/30/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*67 - 130*	*10/30/22 09:23*	*10/30/22 18:45*	*1*
Dibromofluoromethane	*90*		*77 - 127*	*10/30/22 09:23*	*10/30/22 18:45*	*1*
Toluene-d8 (Surr)	*104*		*76 - 127*	*10/30/22 09:23*	*10/30/22 18:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.6**		0.01		%			11/01/22 09:54	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-7

Date Collected: 10/25/22 13:55
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-4

Matrix: Solid
Percent Solids: 85.4

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		5.6		mg/Kg	☼	10/28/22 13:42	10/31/22 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*27 - 150*	*10/28/22 13:42*	*10/31/22 21:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.01		%			10/31/22 15:58	1

Client Sample ID: S-14

Date Collected: 10/25/22 15:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-5

Matrix: Solid
Percent Solids: 91.2

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	11/03/22 08:45	11/03/22 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*11/03/22 08:45*	*11/03/22 20:08*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.2		5.2		mg/Kg	☼	10/28/22 13:42	10/31/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*80*		*27 - 150*	*10/28/22 13:42*	*10/31/22 20:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
alpha-BHC	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
beta-BHC	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
delta-BHC	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
gamma-BHC (Lindane)	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
cis-Chlordane	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
trans-Chlordane	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
4,4'-DDD	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
4,4'-DDE	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
4,4'-DDT	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Dieldrin	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endosulfan I	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endosulfan II	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endosulfan sulfate	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endrin	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endrin aldehyde	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Endrin ketone	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Heptachlor	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Heptachlor epoxide	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Methoxychlor	<0.0018		0.0018		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1
Toxaphene	<0.11		0.11		mg/Kg	☼	10/31/22 11:18	11/03/22 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*26 - 129*	*10/31/22 11:18*	*11/03/22 03:02*	*1*
Tetrachloro-m-xylene	*61*		*31 - 122*	*10/31/22 11:18*	*11/03/22 03:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.8**		0.01		%			10/31/22 15:58	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-10

Date Collected: 10/24/22 13:45
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/05/22 13:37	1
Toluene	<1.0		1.0		ug/L			11/05/22 13:37	1
Ethylbenzene	<1.0		1.0		ug/L			11/05/22 13:37	1
Xylenes, Total	<10		10		ug/L			11/05/22 13:37	1
Naphthalene	<5.0		5.0		ug/L			11/05/22 13:37	1
Methyl tert-butyl ether	**4.3**		1.0		ug/L			11/05/22 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/05/22 13:37*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/05/22 13:37*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/05/22 13:37*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			11/04/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*69 - 147*		*11/04/22 18:37*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780**	***1**	610		ug/L		10/31/22 13:37	11/01/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*26*		*21 - 150*	*10/31/22 13:37*	*11/01/22 21:51*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-10

Date Collected: 10/25/22 16:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/05/22 14:02	1
Toluene	<1.0		1.0		ug/L			11/05/22 14:02	1
Ethylbenzene	<1.0		1.0		ug/L			11/05/22 14:02	1
Xylenes, Total	<10		10		ug/L			11/05/22 14:02	1
Naphthalene	<5.0		5.0		ug/L			11/05/22 14:02	1
Methyl tert-butyl ether	**2.2**		1.0		ug/L			11/05/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/05/22 14:02*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/05/22 14:02*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/05/22 14:02*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			11/05/22 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*88*		*69 - 147*		*11/05/22 06:03*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<340	*1	340		ug/L		10/31/22 13:37	11/01/22 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*21 - 150*	*10/31/22 13:37*	*11/01/22 22:24*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18

Date Collected: 10/25/22 10:20
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-3

Matrix: Water

Method: SW846 8260B - TCL VOA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<250		250		ug/L			11/05/22 17:48	250
1,1,2,2-Tetrachloroethane	<250		250		ug/L			11/05/22 17:48	250
1,1,2-Trichloro-1,2,2-trifluoroethane	<250		250		ug/L			11/05/22 17:48	250
1,1,2-Trichloroethane	<1300		1300		ug/L			11/05/22 17:48	250
1,1-Dichloroethane	<250		250		ug/L			11/05/22 17:48	250
1,1-Dichloroethene	<250		250		ug/L			11/05/22 17:48	250
1,2,4-Trichlorobenzene	<250		250		ug/L			11/05/22 17:48	250
1,2-Dibromo-3-Chloropropane	<1300		1300		ug/L			11/05/22 17:48	250
1,2-Dichlorobenzene	<250		250		ug/L			11/05/22 17:48	250
1,2-Dichloroethane	<250		250		ug/L			11/05/22 17:48	250
1,2-Dichloropropane	<250		250		ug/L			11/05/22 17:48	250
1,3-Dichlorobenzene	<250		250		ug/L			11/05/22 17:48	250
1,4-Dichlorobenzene	<250		250		ug/L			11/05/22 17:48	250
2-Hexanone	<6300		6300		ug/L			11/05/22 17:48	250
Acetone	<6300		6300		ug/L			11/05/22 17:48	250
Benzene	<250		250		ug/L			11/05/22 17:48	250
Bromodichloromethane	<250		250		ug/L			11/05/22 17:48	250
Bromoform	<1300		1300		ug/L			11/05/22 17:48	250
Bromomethane	<250		250		ug/L			11/05/22 17:48	250
Carbon disulfide	<250		250		ug/L			11/05/22 17:48	250
Carbon tetrachloride	<250		250		ug/L			11/05/22 17:48	250
Chlorobenzene	<250		250		ug/L			11/05/22 17:48	250
Chloroethane	<250		250		ug/L			11/05/22 17:48	250
Chloroform	<250		250		ug/L			11/05/22 17:48	250
Chloromethane	<250		250		ug/L			11/05/22 17:48	250
cis-1,2-Dichloroethene	<250		250		ug/L			11/05/22 17:48	250
cis-1,3-Dichloropropene	<1300		1300		ug/L			11/05/22 17:48	250
Cyclohexane	<250		250		ug/L			11/05/22 17:48	250
Dibromochloromethane	<250		250		ug/L			11/05/22 17:48	250
Dichlorodifluoromethane	<250		250		ug/L			11/05/22 17:48	250
Ethylbenzene	**380**		250		ug/L			11/05/22 17:48	250
Ethylene Dibromide	<250		250		ug/L			11/05/22 17:48	250
Isopropylbenzene	<250		250		ug/L			11/05/22 17:48	250
Methyl acetate	<1300		1300		ug/L			11/05/22 17:48	250
Methyl Ethyl Ketone	<6300		6300		ug/L			11/05/22 17:48	250
methyl isobutyl ketone	<6300		6300		ug/L			11/05/22 17:48	250
Methyl tert-butyl ether	<250		250		ug/L			11/05/22 17:48	250
Methylcyclohexane	<250		250		ug/L			11/05/22 17:48	250
Methylene Chloride	<1300		1300		ug/L			11/05/22 17:48	250
m-Xylene & p-Xylene	<1300		1300		ug/L			11/05/22 17:48	250
Naphthalene	<1300		1300		ug/L			11/05/22 17:48	250
o-Xylene	<1300		1300		ug/L			11/05/22 17:48	250
Styrene	<250		250		ug/L			11/05/22 17:48	250
Tetrachloroethene	<250		250		ug/L			11/05/22 17:48	250
Toluene	**68000**		250		ug/L			11/05/22 17:48	250
trans-1,2-Dichloroethene	<250		250		ug/L			11/05/22 17:48	250
trans-1,3-Dichloropropene	<1300		1300		ug/L			11/05/22 17:48	250
Trichloroethene	<250		250		ug/L			11/05/22 17:48	250
Trichlorofluoromethane	<250		250		ug/L			11/05/22 17:48	250

Client Sample ID: S-18
Date Collected: 10/25/22 10:20
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-3
Matrix: Water

Method: SW846 8260B - TCL VOA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<250		250		ug/L			11/05/22 17:48	250
Xylenes, Total	<2500		2500		ug/L			11/05/22 17:48	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/05/22 17:48*	*250*
Dibromofluoromethane	*104*		*75 - 126*		*11/05/22 17:48*	*250*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/05/22 17:48*	*250*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,2'-oxybis(1-chloropropane)	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4,5-Trichlorophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4,6-Trichlorophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4-Dichlorophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4-Dimethylphenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4-Dinitrophenol	<42		42		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,4-Dinitrotoluene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2,6-Dinitrotoluene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Chloronaphthalene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Chlorophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Methylnaphthalene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Methylphenol	**84**		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Nitroaniline	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
2-Nitrophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
3 & 4 Methylphenol	**97**		28		ug/L		11/01/22 08:36	11/02/22 19:50	1
3,3'-Dichlorobenzidine	<15		15		ug/L		11/01/22 08:36	11/02/22 19:50	1
3-Nitroaniline	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4,6-Dinitro-2-methylphenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Bromophenyl phenyl ether	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Chloro-3-methylphenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Chloroaniline	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Chlorophenyl phenyl ether	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Nitroaniline	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
4-Nitrophenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Acenaphthene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Acenaphthylene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Acetophenone	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Anthracene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Atrazine	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzaldehyde	**18**		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzo[a]anthracene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzo[a]pyrene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzo[b]fluoranthene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzo[g,h,i]perylene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Benzo[k]fluoranthene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Bis(2-chloroethoxy)methane	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Bis(2-chloroethyl)ether	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Bis(2-ethylhexyl) phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Butyl benzyl phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18
Date Collected: 10/25/22 10:20
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-3
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Carbazole	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Chrysene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Dibenz(a,h)anthracene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Dibenzofuran	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Diethyl phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Dimethyl phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Di-n-butyl phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Di-n-octyl phthalate	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Fluoranthene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Fluorene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Hexachlorobenzene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Hexachlorobutadiene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Hexachlorocyclopentadiene	<28		28		ug/L		11/01/22 08:36	11/02/22 19:50	1
Hexachloroethane	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Indeno[1,2,3-cd]pyrene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Isophorone	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Naphthalene	**23**		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Nitrobenzene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
N-Nitrosodi-n-propylamine	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
N-Nitrosodiphenylamine	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Pentachlorophenol	<28		28		ug/L		11/01/22 08:36	11/02/22 19:50	1
Phenanthrene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Phenol	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1
Pyrene	<14		14		ug/L		11/01/22 08:36	11/02/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*129*		*10 - 150*	*11/01/22 08:36*	*11/02/22 19:50*	*1*
2-Fluorobiphenyl	*81*		*21 - 114*	*11/01/22 08:36*	*11/02/22 19:50*	*1*
2-Fluorophenol (Surr)	*68*		*10 - 105*	*11/01/22 08:36*	*11/02/22 19:50*	*1*
Nitrobenzene-d5 (Surr)	*92*		*16 - 127*	*11/01/22 08:36*	*11/02/22 19:50*	*1*
Phenol-d5 (Surr)	*59*		*10 - 129*	*11/01/22 08:36*	*11/02/22 19:50*	*1*
Terphenyl-d14 (Surr)	*143*		*13 - 150*	*11/01/22 08:36*	*11/02/22 19:50*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17

Date Collected: 10/25/22 11:35
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-4

Matrix: Water

Method: SW846 8260B - TCL VOA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2000		2000		ug/L			11/05/22 18:15	2000
1,1,2,2-Tetrachloroethane	<2000		2000		ug/L			11/05/22 18:15	2000
1,1,2-Trichloro-1,2,2-trifluoroethane	<2000		2000		ug/L			11/05/22 18:15	2000
1,1,2-Trichloroethane	<10000		10000		ug/L			11/05/22 18:15	2000
1,1-Dichloroethane	<2000		2000		ug/L			11/05/22 18:15	2000
1,1-Dichloroethene	<2000		2000		ug/L			11/05/22 18:15	2000
1,2,4-Trichlorobenzene	<2000		2000		ug/L			11/05/22 18:15	2000
1,2-Dibromo-3-Chloropropane	<10000		10000		ug/L			11/05/22 18:15	2000
1,2-Dichlorobenzene	<2000		2000		ug/L			11/05/22 18:15	2000
1,2-Dichloroethane	<2000		2000		ug/L			11/05/22 18:15	2000
1,2-Dichloropropane	<2000		2000		ug/L			11/05/22 18:15	2000
1,3-Dichlorobenzene	<2000		2000		ug/L			11/05/22 18:15	2000
1,4-Dichlorobenzene	<2000		2000		ug/L			11/05/22 18:15	2000
2-Hexanone	<50000		50000		ug/L			11/05/22 18:15	2000
Acetone	<50000		50000		ug/L			11/05/22 18:15	2000
Benzene	<2000		2000		ug/L			11/05/22 18:15	2000
Bromodichloromethane	<2000		2000		ug/L			11/05/22 18:15	2000
Bromoform	<10000		10000		ug/L			11/05/22 18:15	2000
Bromomethane	<2000		2000		ug/L			11/05/22 18:15	2000
Carbon disulfide	<2000		2000		ug/L			11/05/22 18:15	2000
Carbon tetrachloride	<2000		2000		ug/L			11/05/22 18:15	2000
Chlorobenzene	<2000		2000		ug/L			11/05/22 18:15	2000
Chloroethane	<2000		2000		ug/L			11/05/22 18:15	2000
Chloroform	<2000		2000		ug/L			11/05/22 18:15	2000
Chloromethane	<2000		2000		ug/L			11/05/22 18:15	2000
cis-1,2-Dichloroethene	<2000		2000		ug/L			11/05/22 18:15	2000
cis-1,3-Dichloropropene	<10000		10000		ug/L			11/05/22 18:15	2000
Cyclohexane	<2000		2000		ug/L			11/05/22 18:15	2000
Dibromochloromethane	<2000		2000		ug/L			11/05/22 18:15	2000
Dichlorodifluoromethane	<2000		2000		ug/L			11/05/22 18:15	2000
Ethylbenzene	<2000		2000		ug/L			11/05/22 18:15	2000
Ethylene Dibromide	<2000		2000		ug/L			11/05/22 18:15	2000
Isopropylbenzene	<2000		2000		ug/L			11/05/22 18:15	2000
Methyl acetate	<10000		10000		ug/L			11/05/22 18:15	2000
Methyl Ethyl Ketone	<50000		50000		ug/L			11/05/22 18:15	2000
methyl isobutyl ketone	<50000		50000		ug/L			11/05/22 18:15	2000
Methyl tert-butyl ether	<2000		2000		ug/L			11/05/22 18:15	2000
Methylcyclohexane	<2000		2000		ug/L			11/05/22 18:15	2000
Methylene Chloride	<10000		10000		ug/L			11/05/22 18:15	2000
m-Xylene & p-Xylene	<10000		10000		ug/L			11/05/22 18:15	2000
Naphthalene	<10000		10000		ug/L			11/05/22 18:15	2000
o-Xylene	<10000		10000		ug/L			11/05/22 18:15	2000
Styrene	<2000		2000		ug/L			11/05/22 18:15	2000
Tetrachloroethene	<2000		2000		ug/L			11/05/22 18:15	2000
Toluene	**280000**		2000		ug/L			11/05/22 18:15	2000
trans-1,2-Dichloroethene	<2000		2000		ug/L			11/05/22 18:15	2000
trans-1,3-Dichloropropene	<10000		10000		ug/L			11/05/22 18:15	2000
Trichloroethene	<2000		2000		ug/L			11/05/22 18:15	2000
Trichlorofluoromethane	<2000		2000		ug/L			11/05/22 18:15	2000

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17

Date Collected: 10/25/22 11:35
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-4

Matrix: Water

Method: SW846 8260B - TCL VOA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<2000		2000		ug/L			11/05/22 18:15	2000
Xylenes, Total	<20000		20000		ug/L			11/05/22 18:15	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/05/22 18:15*	*2000*
Dibromofluoromethane	*106*		*75 - 126*		*11/05/22 18:15*	*2000*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/05/22 18:15*	*2000*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,2'-oxybis(1-chloropropane)	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4,5-Trichlorophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4,6-Trichlorophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4-Dichlorophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4-Dimethylphenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4-Dinitrophenol	<33		33		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,4-Dinitrotoluene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2,6-Dinitrotoluene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Chloronaphthalene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Chlorophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Methylnaphthalene	**17**		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Methylphenol	**170**		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Nitroaniline	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
2-Nitrophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
3 & 4 Methylphenol	**110**		22		ug/L		11/01/22 08:36	11/02/22 20:11	1
3,3'-Dichlorobenzidine	<12		12		ug/L		11/01/22 08:36	11/02/22 20:11	1
3-Nitroaniline	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Bromophenyl phenyl ether	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Chloro-3-methylphenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Chloroaniline	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Nitroaniline	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
4-Nitrophenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Acenaphthene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Acenaphthylene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Acetophenone	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Anthracene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Atrazine	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzaldehyde	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzo[a]anthracene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzo[a]pyrene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzo[b]fluoranthene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzo[g,h,i]perylene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Benzo[k]fluoranthene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Bis(2-chloroethyl)ether	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Butyl benzyl phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-17
Date Collected: 10/25/22 11:35
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Carbazole	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Chrysene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Dibenz(a,h)anthracene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Dibenzofuran	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Diethyl phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Dimethyl phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Di-n-butyl phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Di-n-octyl phthalate	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Fluoranthene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Fluorene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Hexachlorobenzene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Hexachlorobutadiene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Hexachlorocyclopentadiene	<22		22		ug/L		11/01/22 08:36	11/02/22 20:11	1
Hexachloroethane	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Isophorone	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Naphthalene	**59**		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Nitrobenzene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
N-Nitrosodiphenylamine	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Pentachlorophenol	<22		22		ug/L		11/01/22 08:36	11/02/22 20:11	1
Phenanthrene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Phenol	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1
Pyrene	<11		11		ug/L		11/01/22 08:36	11/02/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*133*		*10 - 150*	*11/01/22 08:36*	*11/02/22 20:11*	*1*
2-Fluorobiphenyl	*76*		*21 - 114*	*11/01/22 08:36*	*11/02/22 20:11*	*1*
2-Fluorophenol (Surr)	*73*		*10 - 105*	*11/01/22 08:36*	*11/02/22 20:11*	*1*
Nitrobenzene-d5 (Surr)	*83*		*16 - 127*	*11/01/22 08:36*	*11/02/22 20:11*	*1*
Phenol-d5 (Surr)	*64*		*10 - 129*	*11/01/22 08:36*	*11/02/22 20:11*	*1*
Terphenyl-d14 (Surr)	*129*		*13 - 150*	*11/01/22 08:36*	*11/02/22 20:11*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-8

Date Collected: 10/25/22 13:00
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-5

Matrix: Water

Method: SW846 8260B - TCL VOA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			11/05/22 14:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/05/22 14:26	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			11/05/22 14:26	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/05/22 14:26	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
2-Hexanone	<25		25		ug/L			11/05/22 14:26	1
Acetone	<25		25		ug/L			11/05/22 14:26	1
Benzene	<1.0		1.0		ug/L			11/05/22 14:26	1
Bromodichloromethane	<1.0		1.0		ug/L			11/05/22 14:26	1
Bromoform	<5.0		5.0		ug/L			11/05/22 14:26	1
Bromomethane	<1.0		1.0		ug/L			11/05/22 14:26	1
Carbon disulfide	<1.0		1.0		ug/L			11/05/22 14:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			11/05/22 14:26	1
Chlorobenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
Chloroethane	<1.0		1.0		ug/L			11/05/22 14:26	1
Chloroform	<1.0		1.0		ug/L			11/05/22 14:26	1
Chloromethane	<1.0		1.0		ug/L			11/05/22 14:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/05/22 14:26	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			11/05/22 14:26	1
Cyclohexane	<1.0		1.0		ug/L			11/05/22 14:26	1
Dibromochloromethane	<1.0		1.0		ug/L			11/05/22 14:26	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			11/05/22 14:26	1
Ethylbenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
Ethylene Dibromide	<1.0		1.0		ug/L			11/05/22 14:26	1
Isopropylbenzene	<1.0		1.0		ug/L			11/05/22 14:26	1
Methyl acetate	<5.0		5.0		ug/L			11/05/22 14:26	1
Methyl Ethyl Ketone	<25		25		ug/L			11/05/22 14:26	1
methyl isobutyl ketone	<25		25		ug/L			11/05/22 14:26	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			11/05/22 14:26	1
Methylcyclohexane	<1.0		1.0		ug/L			11/05/22 14:26	1
Methylene Chloride	<5.0		5.0		ug/L			11/05/22 14:26	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			11/05/22 14:26	1
Naphthalene	<5.0		5.0		ug/L			11/05/22 14:26	1
o-Xylene	<5.0		5.0		ug/L			11/05/22 14:26	1
Styrene	<1.0		1.0		ug/L			11/05/22 14:26	1
Tetrachloroethene	<1.0		1.0		ug/L			11/05/22 14:26	1
Toluene	**120**		1.0		ug/L			11/05/22 14:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/05/22 14:26	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			11/05/22 14:26	1
Trichloroethene	<1.0		1.0		ug/L			11/05/22 14:26	1
Trichlorofluoromethane	<1.0		1.0		ug/L			11/05/22 14:26	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-8
Date Collected: 10/25/22 13:00
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-5
Matrix: Water

Method: SW846 8260B - TCL VOA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.0		1.0		ug/L			11/05/22 14:26	1
Xylenes, Total	<10		10		ug/L			11/05/22 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/05/22 14:26*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/05/22 14:26*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/05/22 14:26*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-7
Date Collected: 10/25/22 14:10
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-6
Matrix: Water

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<140	*1	140		ug/L		10/31/22 13:37	11/01/22 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*70*		*21 - 150*	*10/31/22 13:37*	*11/01/22 22:41*	*1*

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-15
Date Collected: 10/27/22 09:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-1
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4,5-Trichlorophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4,6-Trichlorophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4-Dichlorophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4-Dimethylphenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4-Dinitrophenol	<1.1		1.1		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,4-Dinitrotoluene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2,6-Dinitrotoluene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Chloronaphthalene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Chlorophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Methylnaphthalene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Methylphenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Nitroaniline	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
2-Nitrophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
3 & 4 Methylphenol	<0.71		0.71		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
3,3'-Dichlorobenzidine	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
3-Nitroaniline	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4,6-Dinitro-2-methylphenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Bromophenyl phenyl ether	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Chloro-3-methylphenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Chloroaniline	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Chlorophenyl phenyl ether	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Nitroaniline	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
4-Nitrophenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Acenaphthene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Acenaphthylene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Acetophenone	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Anthracene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Atrazine	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzaldehyde	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzo[a]anthracene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzo[a]pyrene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzo[b]fluoranthene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzo[g,h,i]perylene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Benzo[k]fluoranthene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
bis (2-chloroisopropyl) ether	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Bis(2-chloroethoxy)methane	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Bis(2-chloroethyl)ether	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Bis(2-ethylhexyl) phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Butyl benzyl phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Caprolactam	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Carbazole	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Chrysene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Dibenz(a,h)anthracene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Dibenzofuran	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Diethyl phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Dimethyl phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Di-n-butyl phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Di-n-octyl phthalate	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1

Client Sample ID: S-15
Date Collected: 10/27/22 09:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-1
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Fluorene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Hexachlorobenzene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Hexachlorobutadiene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Hexachlorocyclopentadiene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Hexachloroethane	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Indeno[1,2,3-cd]pyrene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Isophorone	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Naphthalene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Nitrobenzene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
N-Nitrosodi-n-propylamine	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
N-Nitrosodiphenylamine	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Pentachlorophenol	<0.71		0.71		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Phenanthrene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Phenol	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1
Pyrene	<0.36		0.36		mg/Kg	☼	11/01/22 08:44	11/02/22 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 150*	*11/01/22 08:44*	*11/02/22 22:01*	*1*
2-Fluorobiphenyl	*89*		*27 - 127*	*11/01/22 08:44*	*11/02/22 22:01*	*1*
2-Fluorophenol (Surr)	*79*		*25 - 128*	*11/01/22 08:44*	*11/02/22 22:01*	*1*
Nitrobenzene-d5 (Surr)	*75*		*15 - 136*	*11/01/22 08:44*	*11/02/22 22:01*	*1*
Phenol-d5 (Surr)	*77*		*29 - 130*	*11/01/22 08:44*	*11/02/22 22:01*	*1*
Terphenyl-d14 (Surr)	*95*		*24 - 146*	*11/01/22 08:44*	*11/02/22 22:01*	*1*

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Barium	**8.4**		1.0		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Cadmium	<0.50		0.50		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Chromium	**2.3**		1.0		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Lead	**6.6**		1.0		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Selenium	<2.0		2.0		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1
Silver	<0.50		0.50		mg/Kg	☼	11/09/22 16:16	11/10/22 13:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	11/08/22 10:00	11/09/22 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent) (SW846 7196A)	<5.1		5.1		mg/Kg	☼	11/14/22 18:41	11/15/22 00:25	1
Chromium, trivalent (SW846 7196A)	<5.5		5.5		mg/Kg	☼		10/29/22 23:26	1
Percent Moisture (EPA Moisture)	**9.2**		0.01		%			10/31/22 09:42	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-16
Date Collected: 10/27/22 09:45
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-2
Matrix: Solid
Percent Solids: 86.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4,5-Trichlorophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4,6-Trichlorophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4-Dichlorophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4-Dimethylphenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4-Dinitrophenol	<440		440		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,4-Dinitrotoluene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2,6-Dinitrotoluene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Chloronaphthalene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Chlorophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Methylnaphthalene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Methylphenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Nitroaniline	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
2-Nitrophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
3 & 4 Methylphenol	<300		300		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
3,3'-Dichlorobenzidine	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
3-Nitroaniline	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4,6-Dinitro-2-methylphenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Bromophenyl phenyl ether	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Chloro-3-methylphenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Chloroaniline	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Chlorophenyl phenyl ether	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Nitroaniline	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
4-Nitrophenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Acenaphthene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Acenaphthylene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Acetophenone	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Anthracene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Atrazine	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzaldehyde	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzo[a]anthracene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzo[a]pyrene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzo[b]fluoranthene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzo[g,h,i]perylene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Benzo[k]fluoranthene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
bis (2-chloroisopropyl) ether	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Bis(2-chloroethoxy)methane	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Bis(2-chloroethyl)ether	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Bis(2-ethylhexyl) phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Butyl benzyl phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Caprolactam	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Carbazole	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Chrysene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Dibenz(a,h)anthracene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Dibenzofuran	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Diethyl phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Dimethyl phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Di-n-butyl phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Di-n-octyl phthalate	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-16
Date Collected: 10/27/22 09:45
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-2
Matrix: Solid
Percent Solids: 86.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Fluorene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Hexachlorobenzene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Hexachlorobutadiene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Hexachlorocyclopentadiene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Hexachloroethane	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Indeno[1,2,3-cd]pyrene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Isophorone	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Naphthalene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Nitrobenzene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
N-Nitrosodi-n-propylamine	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
N-Nitrosodiphenylamine	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Pentachlorophenol	<300		300		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Phenanthrene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Phenol	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20
Pyrene	<150		150		mg/Kg	☼	11/01/22 08:44	11/02/22 22:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*2068*	*S1+*	*10 - 150*	*11/01/22 08:44*	*11/02/22 22:36*	*20*
2-Fluorobiphenyl	*130*	*S1+*	*27 - 127*	*11/01/22 08:44*	*11/02/22 22:36*	*20*
2-Fluorophenol (Surr)	*1260*	*S1+*	*25 - 128*	*11/01/22 08:44*	*11/02/22 22:36*	*20*
Nitrobenzene-d5 (Surr)	*1315*	*S1+*	*15 - 136*	*11/01/22 08:44*	*11/02/22 22:36*	*20*
Phenol-d5 (Surr)	*11*	*S1-*	*29 - 130*	*11/01/22 08:44*	*11/02/22 22:36*	*20*
Terphenyl-d14 (Surr)	*179*	*S1+*	*24 - 146*	*11/01/22 08:44*	*11/02/22 22:36*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.01		%			10/31/22 09:42	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-26
Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3
Matrix: Solid
Percent Solids: 84.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,1,2-Trichloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,1-Dichloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,1-Dichloroethene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2,3-Trichlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2,4-Trichlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2-Dibromo-3-Chloropropane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2-Dichlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2-Dichloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,2-Dichloropropane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,3-Dichlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
1,4-Dichlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
2-Hexanone	<0.029		0.029		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Acetone	<0.029		0.029		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Benzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Bromodichloromethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Bromoform	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Bromomethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Carbon disulfide	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Carbon tetrachloride	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Chlorobenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Chlorobromomethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Chloroethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Chloroform	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Chloromethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
cis-1,2-Dichloroethene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
cis-1,3-Dichloropropene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Cyclohexane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Dibromochloromethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Dichlorodifluoromethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Ethylbenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Ethylene Dibromide	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Isopropylbenzene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Methyl acetate	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Methyl Ethyl Ketone	<0.029		0.029		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
methyl isobutyl ketone	<0.029		0.029		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Methyl tert-butyl ether	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Methylcyclohexane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Methylene Chloride	<0.017		0.017		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Naphthalene	<5.8		5.8		ug/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
o-Xylene	<5.8		5.8		ug/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Styrene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Tetrachloroethene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Toluene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
trans-1,2-Dichloroethene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
trans-1,3-Dichloropropene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-26
Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3
Matrix: Solid
Percent Solids: 84.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Trichlorofluoromethane	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Vinyl chloride	<0.0058		0.0058		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	10/30/22 09:23	10/30/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*	*10/30/22 09:23*	*10/30/22 16:39*	*1*
Dibromofluoromethane	*94*		*77 - 127*	*10/30/22 09:23*	*10/30/22 16:39*	*1*
Toluene-d8 (Surr)	*102*		*76 - 127*	*10/30/22 09:23*	*10/30/22 16:39*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4,5-Trichlorophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4,6-Trichlorophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4-Dichlorophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4-Dimethylphenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4-Dinitrophenol	<5.8		5.8		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,4-Dinitrotoluene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2,6-Dinitrotoluene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Chloronaphthalene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Chlorophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Methylnaphthalene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Methylphenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Nitroaniline	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
2-Nitrophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
3 & 4 Methylphenol	<3.8		3.8		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
3,3'-Dichlorobenzidine	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
3-Nitroaniline	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4,6-Dinitro-2-methylphenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Bromophenyl phenyl ether	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Chloro-3-methylphenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Chloroaniline	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Chlorophenyl phenyl ether	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Nitroaniline	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
4-Nitrophenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Acenaphthene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Acenaphthylene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Acetophenone	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Anthracene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Atrazine	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzaldehyde	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzo[a]anthracene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzo[a]pyrene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzo[b]fluoranthene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzo[g,h,i]perylene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Benzo[k]fluoranthene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
bis (2-chloroisopropyl) ether	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Bis(2-chloroethoxy)methane	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Bis(2-chloroethyl)ether	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5

Client Sample ID: S-26
Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3
Matrix: Solid
Percent Solids: 84.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Butyl benzyl phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Caprolactam	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Carbazole	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Chrysene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Dibenz(a,h)anthracene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Dibenzofuran	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Diethyl phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Dimethyl phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Di-n-butyl phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Di-n-octyl phthalate	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Fluoranthene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Fluorene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Hexachlorobenzene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Hexachlorobutadiene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Hexachlorocyclopentadiene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Hexachloroethane	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Indeno[1,2,3-cd]pyrene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Isophorone	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Naphthalene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Nitrobenzene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
N-Nitrosodi-n-propylamine	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
N-Nitrosodiphenylamine	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Pentachlorophenol	<3.8		3.8		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Phenanthrene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Phenol	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5
Pyrene	<1.9		1.9		mg/Kg	☼	11/01/22 08:44	11/02/22 22:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 150*	*11/01/22 08:44*	*11/02/22 22:57*	*5*
2-Fluorobiphenyl	*67*		*27 - 127*	*11/01/22 08:44*	*11/02/22 22:57*	*5*
2-Fluorophenol (Surr)	*78*		*25 - 128*	*11/01/22 08:44*	*11/02/22 22:57*	*5*
Nitrobenzene-d5 (Surr)	*68*		*15 - 136*	*11/01/22 08:44*	*11/02/22 22:57*	*5*
Phenol-d5 (Surr)	*71*		*29 - 130*	*11/01/22 08:44*	*11/02/22 22:57*	*5*
Terphenyl-d14 (Surr)	*99*		*24 - 146*	*11/01/22 08:44*	*11/02/22 22:57*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
alpha-BHC	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
beta-BHC	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
delta-BHC	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
gamma-BHC (Lindane)	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
cis-Chlordane	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
trans-Chlordane	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
4,4'-DDD	**0.011**		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
4,4'-DDE	**0.090**		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
4,4'-DDT	**0.029**		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Dieldrin	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Endosulfan I	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-26
Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3
Matrix: Solid
Percent Solids: 84.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Endosulfan sulfate	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Endrin	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Endrin aldehyde	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Endrin ketone	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Heptachlor	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Heptachlor epoxide	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Methoxychlor	<0.010		0.010		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5
Toxaphene	<0.59		0.59		mg/Kg	☼	10/31/22 11:18	11/03/22 23:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*26 - 129*	*10/31/22 11:18*	*11/03/22 23:20*	*5*
Tetrachloro-m-xylene	*40*		*31 - 122*	*10/31/22 11:18*	*11/03/22 23:20*	*5*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.1		1.1		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
2,4-DB	<0.086		0.086		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
2,4,5-T	<0.23		0.23		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
Silvex (2,4,5-TP)	<0.23		0.23		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
Dalapon	<0.11		0.11		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
Dicamba	<0.34		0.34		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
Dichlorprop	<0.75		0.75		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
Dinoseb	<1.1		1.1		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
MCPA	<290		290		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5
MCPP	<290		290		mg/Kg	☼	10/31/22 13:28	11/04/22 07:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*10 - 150*	*10/31/22 13:28*	*11/04/22 07:06*	*5*

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.2		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Barium	**66**		1.2		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Cadmium	<0.58		0.58		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Chromium	**11**		1.2		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Lead	**71**		1.2		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Selenium	<2.3		2.3		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1
Silver	<0.58		0.58		mg/Kg	☼	11/09/22 16:16	11/10/22 13:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.018		mg/Kg	☼	11/08/22 10:00	11/09/22 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent) (SW846 7196A)	<5.3		5.3		mg/Kg	☼	11/14/22 18:41	11/15/22 00:30	1
Chromium, trivalent (SW846 7196A)	**11**		6.0		mg/Kg	☼		10/29/22 23:26	1
Percent Moisture (EPA Moisture)	**16.0**		0.01		%			10/31/22 09:42	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-27
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4
Matrix: Solid
Percent Solids: 79.2

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,1,2,2-Tetrachloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,1,2-Trichloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,1-Dichloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,1-Dichloroethene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2,3-Trichlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2,4-Trichlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2-Dibromo-3-Chloropropane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2-Dichlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2-Dichloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,2-Dichloropropane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,3-Dichlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
1,4-Dichlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
2-Hexanone	<0.032		0.032		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Acetone	<0.032		0.032		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Benzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Bromodichloromethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Bromoform	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Bromomethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Carbon disulfide	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Carbon tetrachloride	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Chlorobenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Chlorobromomethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Chloroethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Chloroform	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Chloromethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
cis-1,2-Dichloroethene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
cis-1,3-Dichloropropene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Cyclohexane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Dibromochloromethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Dichlorodifluoromethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Ethylbenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Ethylene Dibromide	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Isopropylbenzene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Methyl acetate	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Methyl Ethyl Ketone	<0.032		0.032		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
methyl isobutyl ketone	<0.032		0.032		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Methyl tert-butyl ether	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Methylcyclohexane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Methylene Chloride	<0.019		0.019		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
m-Xylene & p-Xylene	<6.4		6.4		ug/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Naphthalene	<6.4		6.4		ug/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
o-Xylene	<6.4		6.4		ug/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Styrene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Tetrachloroethene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Toluene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
trans-1,2-Dichloroethene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
trans-1,3-Dichloropropene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-27
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4
Matrix: Solid
Percent Solids: 79.2

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Trichlorofluoromethane	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Vinyl chloride	<0.0064		0.0064		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1
Xylenes, Total	<0.013		0.013		mg/Kg	☼	10/30/22 09:23	10/30/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*	*10/30/22 09:23*	*10/30/22 17:04*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*10/30/22 09:23*	*10/30/22 17:04*	*1*
Toluene-d8 (Surr)	*103*		*76 - 127*	*10/30/22 09:23*	*10/30/22 17:04*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4,5-Trichlorophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4,6-Trichlorophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4-Dichlorophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4-Dimethylphenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4-Dinitrophenol	<12		12		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,4-Dinitrotoluene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2,6-Dinitrotoluene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Chloronaphthalene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Chlorophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Methylnaphthalene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Methylphenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Nitroaniline	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
2-Nitrophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
3 & 4 Methylphenol	<8.1		8.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
3,3'-Dichlorobenzidine	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
3-Nitroaniline	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4,6-Dinitro-2-methylphenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Bromophenyl phenyl ether	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Chloro-3-methylphenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Chloroaniline	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Chlorophenyl phenyl ether	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Nitroaniline	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
4-Nitrophenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Acenaphthene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Acenaphthylene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Acetophenone	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Anthracene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Atrazine	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzaldehyde	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzo[a]anthracene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzo[a]pyrene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzo[b]fluoranthene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzo[g,h,i]perylene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Benzo[k]fluoranthene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
bis (2-chloroisopropyl) ether	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Bis(2-chloroethoxy)methane	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Bis(2-chloroethyl)ether	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10

Client Sample ID: S-27
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4
Matrix: Solid
Percent Solids: 79.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Butyl benzyl phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Caprolactam	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Carbazole	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Chrysene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Dibenz(a,h)anthracene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Dibenzofuran	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Diethyl phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Dimethyl phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Di-n-butyl phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Di-n-octyl phthalate	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Fluoranthene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Fluorene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Hexachlorobenzene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Hexachlorobutadiene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Hexachlorocyclopentadiene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Hexachloroethane	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Indeno[1,2,3-cd]pyrene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Isophorone	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Naphthalene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Nitrobenzene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
N-Nitrosodi-n-propylamine	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
N-Nitrosodiphenylamine	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Pentachlorophenol	<8.1		8.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Phenanthrene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Phenol	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10
Pyrene	<4.1		4.1		mg/Kg	☼	11/01/22 08:44	11/02/22 23:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*121*		*10 - 150*	*11/01/22 08:44*	*11/02/22 23:17*	*10*
2-Fluorobiphenyl	*66*		*27 - 127*	*11/01/22 08:44*	*11/02/22 23:17*	*10*
2-Fluorophenol (Surr)	*93*		*25 - 128*	*11/01/22 08:44*	*11/02/22 23:17*	*10*
Nitrobenzene-d5 (Surr)	*73*		*15 - 136*	*11/01/22 08:44*	*11/02/22 23:17*	*10*
Phenol-d5 (Surr)	*75*		*29 - 130*	*11/01/22 08:44*	*11/02/22 23:17*	*10*
Terphenyl-d14 (Surr)	*93*		*24 - 146*	*11/01/22 08:44*	*11/02/22 23:17*	*10*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
alpha-BHC	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
beta-BHC	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
delta-BHC	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
gamma-BHC (Lindane)	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
cis-Chlordane	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
trans-Chlordane	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
4,4'-DDD	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
4,4'-DDE	**0.041**		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
4,4'-DDT	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Dieldrin	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Endosulfan I	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20

Client Sample ID: S-27
Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4
Matrix: Solid
Percent Solids: 79.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Endosulfan sulfate	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Endrin	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Endrin aldehyde	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Endrin ketone	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Heptachlor	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Heptachlor epoxide	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Methoxychlor	<0.041		0.041		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20
Toxaphene	<2.4		2.4		mg/Kg	☼	10/31/22 11:18	11/03/22 23:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*38*		*26 - 129*	*10/31/22 11:18*	*11/03/22 23:48*	*20*
Tetrachloro-m-xylene	*32*		*31 - 122*	*10/31/22 11:18*	*11/03/22 23:48*	*20*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.2		1.2		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
2,4-DB	<0.093		0.093		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
2,4,5-T	<0.25		0.25		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
Silvex (2,4,5-TP)	<0.25		0.25		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
Dalapon	<0.12		0.12		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
Dicamba	<0.37		0.37		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
Dichlorprop	<0.81		0.81		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
Dinoseb	<1.2		1.2		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
MCPA	<310		310		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5
MCPP	<310		310		mg/Kg	☼	10/31/22 13:28	11/04/22 07:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*58*		*10 - 150*	*10/31/22 13:28*	*11/04/22 07:39*	*5*

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.3		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Barium	**76**		1.3		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Cadmium	<0.63		0.63		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Chromium	**10**		1.3		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Lead	**86**		1.3		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Selenium	<2.5		2.5		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1
Silver	<0.63		0.63		mg/Kg	☼	11/09/22 16:16	11/10/22 13:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.020		mg/Kg	☼	11/08/22 10:00	11/09/22 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent) (SW846 7196A)	<5.8		5.8		mg/Kg	☼	11/14/22 18:41	11/15/22 00:27	1
Chromium, trivalent (SW846 7196A)	**10**		6.3		mg/Kg	☼		10/29/22 23:26	1
Percent Moisture (EPA Moisture)	**20.8**		0.01		%			10/31/22 09:42	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 597840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227627-1	S-1	Total/NA	Water	8260B	
400-227627-6	S-6	Total/NA	Water	8260B	
MB 400-597840/4	Method Blank	Total/NA	Water	8260B	
LCS 400-597840/1002	Lab Control Sample	Total/NA	Water	8260B	
400-227645-A-6 MS	Matrix Spike	Total/NA	Water	8260B	
400-227645-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 597859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-1	S-1	Total/NA	Solid	8260B	597932
400-227628-6	S-6	Total/NA	Solid	8260B	597932
MB 400-597932/2-A	Method Blank	Total/NA	Solid	8260B	597932
LCS 400-597932/1-A	Lab Control Sample	Total/NA	Solid	8260B	597932
400-227628-1 MS	S-1	Total/NA	Solid	8260B	597932
400-227628-1 MSD	S-1	Total/NA	Solid	8260B	597932

Prep Batch: 597932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-1	S-1	Total/NA	Solid	5035	
400-227628-6	S-6	Total/NA	Solid	5035	
MB 400-597932/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-597932/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227628-1 MS	S-1	Total/NA	Solid	5035	
400-227628-1 MSD	S-1	Total/NA	Solid	5035	

Analysis Batch: 598359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-5	S-10	Total/NA	Solid	8260B	598378
MB 400-598378/2-A	Method Blank	Total/NA	Solid	8260B	598378
LCS 400-598378/1-A	Lab Control Sample	Total/NA	Solid	8260B	598378
680-223863-A-7-C MS	Matrix Spike	Total/NA	Solid	8260B	598378
680-223863-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	598378

Prep Batch: 598378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-5	S-10	Total/NA	Solid	5035	
MB 400-598378/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-598378/1-A	Lab Control Sample	Total/NA	Solid	5035	
680-223863-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
680-223863-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 598417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	8260B	598435
400-227957-2	S-17	Total/NA	Solid	8260B	598435
400-227957-3	S-8	Total/NA	Solid	8260B	598435
400-227994-3	S-26	Total/NA	Solid	8260B	598435
400-227994-4	S-27	Total/NA	Solid	8260B	598435
MB 400-598435/2-A	Method Blank	Total/NA	Solid	8260B	598435
LCS 400-598435/1-A	Lab Control Sample	Total/NA	Solid	8260B	598435
400-227894-B-5-B MS	Matrix Spike	Total/NA	Solid	8260B	598435

GC/MS VOA (Continued)

Analysis Batch: 598417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227894-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	598435

Prep Batch: 598435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	5035	
400-227957-2	S-17	Total/NA	Solid	5035	
400-227957-3	S-8	Total/NA	Solid	5035	
400-227994-3	S-26	Total/NA	Solid	5035	
400-227994-4	S-27	Total/NA	Solid	5035	
MB 400-598435/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-598435/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227894-B-5-B MS	Matrix Spike	Total/NA	Solid	5035	
400-227894-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 599365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227959-1	S-10	Total/NA	Water	8260B	
400-227959-2	S-10	Total/NA	Water	8260B	
400-227959-3	S-18	Total/NA	Water	8260B	
400-227959-4	S-17	Total/NA	Water	8260B	
400-227959-5	S-8	Total/NA	Water	8260B	
MB 400-599365/4	Method Blank	Total/NA	Water	8260B	
LCS 400-599365/1002	Lab Control Sample	Total/NA	Water	8260B	
400-227895-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
400-227895-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 599489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	8260B	599574
MB 400-599574/2-A	Method Blank	Total/NA	Solid	8260B	599574
LCS 400-599574/1-A	Lab Control Sample	Total/NA	Solid	8260B	599574
400-228257-A-1-C MS	Matrix Spike	Total/NA	Solid	8260B	599574
400-228257-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	599574

Prep Batch: 599574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	5035	
MB 400-599574/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-599574/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-228257-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
400-228257-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 598258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	3546	
400-227957-2	S-17	Total/NA	Solid	3546	
MB 400-598258/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598258/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227907-D-12-A MS	Matrix Spike	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 598258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227907-D-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 598504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-598258/1-A	Method Blank	Total/NA	Solid	8270D	598258
LCS 400-598258/2-A	Lab Control Sample	Total/NA	Solid	8270D	598258
400-227907-D-12-A MS	Matrix Spike	Total/NA	Solid	8270D	598258
400-227907-D-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	598258

Analysis Batch: 598571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	8270D	598258
400-227957-2	S-17	Total/NA	Solid	8270D	598258

Prep Batch: 598664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227959-3	S-18	Total/NA	Water	3510C	
400-227959-4	S-17	Total/NA	Water	3510C	
MB 400-598664/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-598664/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-598664/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 598666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	3546	
400-227994-2	S-16	Total/NA	Solid	3546	
400-227994-3	S-26	Total/NA	Solid	3546	
400-227994-4	S-27	Total/NA	Solid	3546	
MB 400-598666/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598666/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-124686-B-1-A MS	Matrix Spike	Total/NA	Solid	3546	
660-124686-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 598902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	8270D	598666
MB 400-598664/1-A	Method Blank	Total/NA	Water	8270D	598664
MB 400-598666/1-A	Method Blank	Total/NA	Solid	8270D	598666
LCS 400-598664/2-A	Lab Control Sample	Total/NA	Water	8270D	598664
LCS 400-598666/2-A	Lab Control Sample	Total/NA	Solid	8270D	598666
LCSD 400-598664/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	598664
660-124686-B-1-A MS	Matrix Spike	Total/NA	Solid	8270D	598666
660-124686-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	598666

Analysis Batch: 598905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227959-3	S-18	Total/NA	Water	8270D	598664
400-227959-4	S-17	Total/NA	Water	8270D	598664
400-227994-2	S-16	Total/NA	Solid	8270D	598666
400-227994-3	S-26	Total/NA	Solid	8270D	598666
400-227994-4	S-27	Total/NA	Solid	8270D	598666

QC Association Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

GC VOA

Analysis Batch: 598460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227445-3	S-21	Total/NA	Water	8015C	
400-227627-1	S-1	Total/NA	Water	8015C	
400-227627-2	S-2	Total/NA	Water	8015C	
400-227627-4	S-4	Total/NA	Water	8015C	
400-227627-5	S-5	Total/NA	Water	8015C	
400-227627-6	S-6	Total/NA	Water	8015C	
400-227627-7	S-22	Total/NA	Water	8015C	
MB 400-598460/4	Method Blank	Total/NA	Water	8015C	
LCS 400-598460/1002	Lab Control Sample	Total/NA	Water	8015C	
400-227445-3 MS	S-21	Total/NA	Water	8015C	
400-227445-3 MSD	S-21	Total/NA	Water	8015C	

Prep Batch: 598657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-3	S-21	Total/NA	Solid	5035	
400-227628-1	S-1	Total/NA	Solid	5035	
400-227628-2	S-2	Total/NA	Solid	5035	
400-227628-4	S-4	Total/NA	Solid	5035	
400-227628-5	S-5	Total/NA	Solid	5035	
400-227628-6	S-6	Total/NA	Solid	5035	
400-227628-7	S-22	Total/NA	Solid	5035	
MB 400-598657/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-598657/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227446-3 MS	S-21	Total/NA	Solid	5035	
400-227446-3 MSD	S-21	Total/NA	Solid	5035	

Analysis Batch: 598661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-3	S-21	Total/NA	Solid	8015C	598657
400-227628-1	S-1	Total/NA	Solid	8015C	598657
400-227628-2	S-2	Total/NA	Solid	8015C	598657
400-227628-4	S-4	Total/NA	Solid	8015C	598657
400-227628-5	S-5	Total/NA	Solid	8015C	598657
400-227628-6	S-6	Total/NA	Solid	8015C	598657
400-227628-7	S-22	Total/NA	Solid	8015C	598657
MB 400-598657/2-A	Method Blank	Total/NA	Solid	8015C	598657
LCS 400-598657/1-A	Lab Control Sample	Total/NA	Solid	8015C	598657
400-227446-3 MS	S-21	Total/NA	Solid	8015C	598657
400-227446-3 MSD	S-21	Total/NA	Solid	8015C	598657

Analysis Batch: 598991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-3	S-11	Total/NA	Solid	8015C	599163
400-227957-5	S-14	Total/NA	Solid	8015C	599163
MB 400-599163/2-A	Method Blank	Total/NA	Solid	8015C	599163
LCS 400-599163/1-A	Lab Control Sample	Total/NA	Solid	8015C	599163
400-227894-A-5-E MS	Matrix Spike	Total/NA	Solid	8015C	599163
400-227894-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	599163

QC Association Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

GC VOA

Prep Batch: 599163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-3	S-11	Total/NA	Solid	5035	
400-227957-5	S-14	Total/NA	Solid	5035	
MB 400-599163/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-599163/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227894-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
400-227894-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 599224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-2	S-9	Total/NA	Solid	8015C	599251
400-227842-5	S-10	Total/NA	Solid	8015C	599251
MB 400-599251/2-A	Method Blank	Total/NA	Solid	8015C	599251
LCS 400-599251/1-A	Lab Control Sample	Total/NA	Solid	8015C	599251
400-227892-A-1-G MS	Matrix Spike	Total/NA	Solid	8015C	599251
400-227892-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	599251

Prep Batch: 599251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-2	S-9	Total/NA	Solid	5035	
400-227842-5	S-10	Total/NA	Solid	5035	
MB 400-599251/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-599251/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227892-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
400-227892-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 599357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227841-2	S-9	Total/NA	Water	8015C	
400-227841-3	S-11	Total/NA	Water	8015C	
400-227959-1	S-10	Total/NA	Water	8015C	
400-227959-2	S-10	Total/NA	Water	8015C	
MB 400-599357/40	Method Blank	Total/NA	Water	8015C	
LCS 400-599357/1002	Lab Control Sample	Total/NA	Water	8015C	
400-227894-A-7 MS	Matrix Spike	Total/NA	Water	8015C	
400-227894-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 596884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-1	S-19	Total/NA	Solid	3546	
400-227446-2	S-20	Total/NA	Solid	3546	
400-227446-3	S-21	Total/NA	Solid	3546	
400-227446-4	S-24	Total/NA	Solid	3546	
400-227446-5	S-25	Total/NA	Solid	3546	
MB 400-596884/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-596884/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 597002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-2	S-20	Total/NA	Solid	8015C	596884

GC Semi VOA (Continued)

Analysis Batch: 597002 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-3	S-21	Total/NA	Solid	8015C	596884
400-227446-4	S-24	Total/NA	Solid	8015C	596884
400-227446-5	S-25	Total/NA	Solid	8015C	596884
MB 400-596884/1-A	Method Blank	Total/NA	Solid	8015C	596884
LCS 400-596884/2-A	Lab Control Sample	Total/NA	Solid	8015C	596884

Prep Batch: 597364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227445-1	S-19	Total/NA	Water	3510C	
400-227445-2	S-20	Total/NA	Water	3510C	
400-227445-3	S-21	Total/NA	Water	3510C	
400-227445-4	S-24	Total/NA	Water	3510C	
400-227445-5	S-25	Total/NA	Water	3510C	
MB 400-597364/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-597364/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-597364/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 597505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227445-1	S-19	Total/NA	Water	8015C	597364
400-227445-2	S-20	Total/NA	Water	8015C	597364
400-227445-3	S-21	Total/NA	Water	8015C	597364
400-227445-4	S-24	Total/NA	Water	8015C	597364
400-227445-5	S-25	Total/NA	Water	8015C	597364
MB 400-597364/1-A	Method Blank	Total/NA	Water	8015C	597364
LCS 400-597364/2-A	Lab Control Sample	Total/NA	Water	8015C	597364
LCSD 400-597364/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	597364

Prep Batch: 597549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-8	S-28	Total/NA	Solid	3546	
400-227628-9	S-29	Total/NA	Solid	3546	
MB 400-597549/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-597549/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227427-A-25-D MS	Matrix Spike	Total/NA	Solid	3546	
400-227427-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 597553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-1	S-19	Total/NA	Solid	8015C	596884

Prep Batch: 597592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-1	S-1	Total/NA	Solid	3546	
400-227628-2	S-2	Total/NA	Solid	3546	
400-227628-3	S-3	Total/NA	Solid	3546	
400-227628-4	S-4	Total/NA	Solid	3546	
400-227628-5	S-5	Total/NA	Solid	3546	
400-227628-6	S-6	Total/NA	Solid	3546	
400-227628-7	S-22	Total/NA	Solid	3546	
MB 400-597592/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 597592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-597592/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227544-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
400-227544-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 597695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227627-8	S-28	Total/NA	Water	3511	
400-227627-9	S-29	Total/NA	Water	3511	
MB 400-597695/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-597695/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-597695/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 597799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227627-1	S-1	Total/NA	Water	3510C	
400-227627-2	S-2	Total/NA	Water	3510C	
400-227627-3	S-3	Total/NA	Water	3510C	
400-227627-4	S-4	Total/NA	Water	3510C	
400-227627-5	S-5	Total/NA	Water	3510C	
400-227627-6	S-6	Total/NA	Water	3510C	
400-227627-7	S-22	Total/NA	Water	3510C	
MB 400-597799/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-597799/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-597799/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 597830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-1	S-1	Total/NA	Solid	8015C	597592
400-227628-2	S-2	Total/NA	Solid	8015C	597592
400-227628-3	S-3	Total/NA	Solid	8015C	597592
400-227628-4	S-4	Total/NA	Solid	8015C	597592
400-227628-5	S-5	Total/NA	Solid	8015C	597592
400-227628-6	S-6	Total/NA	Solid	8015C	597592
400-227628-7	S-22	Total/NA	Solid	8015C	597592
MB 400-597592/1-A	Method Blank	Total/NA	Solid	8015C	597592
LCS 400-597592/2-A	Lab Control Sample	Total/NA	Solid	8015C	597592
400-227544-A-1-B MS	Matrix Spike	Total/NA	Solid	8015C	597592
400-227544-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	597592

Analysis Batch: 597884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227627-1	S-1	Total/NA	Water	8015C	597799
400-227627-2	S-2	Total/NA	Water	8015C	597799
400-227627-3	S-3	Total/NA	Water	8015C	597799
400-227627-4	S-4	Total/NA	Water	8015C	597799
400-227627-5	S-5	Total/NA	Water	8015C	597799
400-227627-6	S-6	Total/NA	Water	8015C	597799
400-227627-7	S-22	Total/NA	Water	8015C	597799
MB 400-597799/1-A	Method Blank	Total/NA	Water	8015C	597799
LCS 400-597799/2-A	Lab Control Sample	Total/NA	Water	8015C	597799
LCSD 400-597799/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	597799

GC Semi VOA

Analysis Batch: 597994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-597695/1-A	Method Blank	Total/NA	Water	8081B	597695
LCS 400-597695/2-A	Lab Control Sample	Total/NA	Water	8081B	597695
LCSD 400-597695/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	597695

Prep Batch: 598081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-1	S-23	Total/NA	Solid	3546	
400-227842-2	S-9	Total/NA	Solid	3546	
400-227842-3	S-11	Total/NA	Solid	3546	
400-227842-4	S-12	Total/NA	Solid	3546	
400-227842-5	S-10	Total/NA	Solid	3546	
400-227842-6	S-13	Total/NA	Solid	3546	
MB 400-598081/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598081/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227803-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
400-227803-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 598093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-8	S-28	Total/NA	Solid	8081B	597549
400-227628-9	S-29	Total/NA	Solid	8081B	597549
MB 400-597549/1-A	Method Blank	Total/NA	Solid	8081B	597549
LCS 400-597549/2-A	Lab Control Sample	Total/NA	Solid	8081B	597549
400-227427-A-25-D MS	Matrix Spike	Total/NA	Solid	8081B	597549
400-227427-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	597549

Analysis Batch: 598267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-1	S-23	Total/NA	Solid	8015C	598081
400-227842-2	S-9	Total/NA	Solid	8015C	598081
400-227842-3	S-11	Total/NA	Solid	8015C	598081
400-227842-4	S-12	Total/NA	Solid	8015C	598081
400-227842-5	S-10	Total/NA	Solid	8015C	598081
400-227842-6	S-13	Total/NA	Solid	8015C	598081
MB 400-598081/1-A	Method Blank	Total/NA	Solid	8015C	598081
LCS 400-598081/2-A	Lab Control Sample	Total/NA	Solid	8015C	598081
400-227803-A-1-A MS	Matrix Spike	Total/NA	Solid	8015C	598081
400-227803-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	598081

Prep Batch: 598308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-4	S-7	Total/NA	Solid	3546	
400-227957-5	S-14	Total/NA	Solid	3546	
MB 400-598308/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598308/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227894-A-5-A MS	Matrix Spike	Total/NA	Solid	3546	
400-227894-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 598311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227841-1	S-23	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 598311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-598311/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-598311/2-A	Lab Control Sample	Total/NA	Water	3510C	
400-227894-E-7-A MS	Matrix Spike	Total/NA	Water	3510C	
400-227894-E-7-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 598470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-598311/1-A	Method Blank	Total/NA	Water	8015C	598311
LCS 400-598311/2-A	Lab Control Sample	Total/NA	Water	8015C	598311
400-227894-E-7-A MS	Matrix Spike	Total/NA	Water	8015C	598311
400-227894-E-7-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	598311

Analysis Batch: 598496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-4	S-7	Total/NA	Solid	8015C	598308
400-227957-5	S-14	Total/NA	Solid	8015C	598308
MB 400-598308/1-A	Method Blank	Total/NA	Solid	8015C	598308
LCS 400-598308/2-A	Lab Control Sample	Total/NA	Solid	8015C	598308
400-227894-A-5-A MS	Matrix Spike	Total/NA	Solid	8015C	598308
400-227894-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	598308

Prep Batch: 598524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-5	S-14	Total/NA	Solid	3546	
400-227994-3	S-26	Total/NA	Solid	3546	
400-227994-4	S-27	Total/NA	Solid	3546	
MB 400-598524/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598524/2-A	Lab Control Sample	Total/NA	Solid	3546	
320-93560-B-1-A MS	Matrix Spike	Total/NA	Solid	3546	
320-93560-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 598572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-3	S-26	Total/NA	Solid	8151A	
400-227994-4	S-27	Total/NA	Solid	8151A	
MB 400-598572/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 400-598572/2-A	Lab Control Sample	Total/NA	Solid	8151A	
400-227875-B-1-I MS	Matrix Spike	Total/NA	Solid	8151A	
400-227875-B-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	

Prep Batch: 598578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227841-2	S-9	Total/NA	Water	3510C	
400-227841-3	S-11	Total/NA	Water	3510C	
400-227841-4	S-12	Total/NA	Water	3510C	
400-227841-5	S-13	Total/NA	Water	3510C	
400-227959-1	S-10	Total/NA	Water	3510C	
400-227959-2	S-10	Total/NA	Water	3510C	
400-227959-6	S-7	Total/NA	Water	3510C	
MB 400-598578/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-598578/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 598578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-598578/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 598756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227841-2	S-9	Total/NA	Water	8015C	598578
400-227841-3	S-11	Total/NA	Water	8015C	598578
400-227841-4	S-12	Total/NA	Water	8015C	598578
400-227841-5	S-13	Total/NA	Water	8015C	598578
400-227959-1	S-10	Total/NA	Water	8015C	598578
400-227959-2	S-10	Total/NA	Water	8015C	598578
400-227959-6	S-7	Total/NA	Water	8015C	598578
MB 400-598578/1-A	Method Blank	Total/NA	Water	8015C	598578
LCS 400-598578/2-A	Lab Control Sample	Total/NA	Water	8015C	598578
LCSD 400-598578/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	598578

Analysis Batch: 598778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227841-1	S-23	Total/NA	Water	8015C	598311

Analysis Batch: 598975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-5	S-14	Total/NA	Solid	8081B	598524
MB 400-598524/1-A	Method Blank	Total/NA	Solid	8081B	598524
LCS 400-598524/2-A	Lab Control Sample	Total/NA	Solid	8081B	598524
320-93560-B-1-A MS	Matrix Spike	Total/NA	Solid	8081B	598524
320-93560-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	598524

Analysis Batch: 599044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227627-8	S-28	Total/NA	Water	8081B	597695
400-227627-9	S-29	Total/NA	Water	8081B	597695
400-227994-3	S-26	Total/NA	Solid	8081B	598524
400-227994-4	S-27	Total/NA	Solid	8081B	598524

Analysis Batch: 599164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-3	S-26	Total/NA	Solid	8151A	598572
400-227994-4	S-27	Total/NA	Solid	8151A	598572
MB 400-598572/1-A	Method Blank	Total/NA	Solid	8151A	598572
LCS 400-598572/2-A	Lab Control Sample	Total/NA	Solid	8151A	598572
400-227875-B-1-I MS	Matrix Spike	Total/NA	Solid	8151A	598572
400-227875-B-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	598572

Metals

Prep Batch: 599543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-599543/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-599543/15-A	Lab Control Sample	Total/NA	Solid	7471B	
680-223863-A-1-I MS	Matrix Spike	Total/NA	Solid	7471B	
680-223863-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	

Metals

Prep Batch: 599611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	7471B	
400-227994-3	S-26	Total/NA	Solid	7471B	
400-227994-4	S-27	Total/NA	Solid	7471B	
MB 400-599611/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-599611/15-A	Lab Control Sample	Total/NA	Solid	7471B	
400-228257-B-2-C MS	Matrix Spike	Total/NA	Solid	7471B	
400-228257-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 599890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	7471B	599611
400-227994-3	S-26	Total/NA	Solid	7471B	599611
400-227994-4	S-27	Total/NA	Solid	7471B	599611
MB 400-599543/14-A	Method Blank	Total/NA	Solid	7471B	599543
MB 400-599611/14-A	Method Blank	Total/NA	Solid	7471B	599611
LCS 400-599543/15-A	Lab Control Sample	Total/NA	Solid	7471B	599543
LCS 400-599611/15-A	Lab Control Sample	Total/NA	Solid	7471B	599611
400-228257-B-2-C MS	Matrix Spike	Total/NA	Solid	7471B	599611
400-228257-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	599611
680-223863-A-1-I MS	Matrix Spike	Total/NA	Solid	7471B	599543
680-223863-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	599543

Prep Batch: 599922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	3050B	
400-227994-3	S-26	Total/NA	Solid	3050B	
400-227994-4	S-27	Total/NA	Solid	3050B	
MB 400-599922/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-599922/2-A	Lab Control Sample	Total/NA	Solid	3050B	
400-228377-F-1-B MS	Matrix Spike	Total/NA	Solid	3050B	
400-228377-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 600209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	6010B	599922
400-227994-3	S-26	Total/NA	Solid	6010B	599922
400-227994-4	S-27	Total/NA	Solid	6010B	599922
MB 400-599922/1-A	Method Blank	Total/NA	Solid	6010B	599922
LCS 400-599922/2-A	Lab Control Sample	Total/NA	Solid	6010B	599922
400-228377-F-1-B MS	Matrix Spike	Total/NA	Solid	6010B	599922
400-228377-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	599922

General Chemistry

Analysis Batch: 597041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227446-1	S-19	Total/NA	Solid	Moisture	
400-227446-2	S-20	Total/NA	Solid	Moisture	
400-227446-3	S-21	Total/NA	Solid	Moisture	
400-227446-4	S-24	Total/NA	Solid	Moisture	
400-227446-5	S-25	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 597691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227628-1	S-1	Total/NA	Solid	Moisture	
400-227628-2	S-2	Total/NA	Solid	Moisture	
400-227628-3	S-3	Total/NA	Solid	Moisture	
400-227628-4	S-4	Total/NA	Solid	Moisture	
400-227628-5	S-5	Total/NA	Solid	Moisture	
400-227628-6	S-6	Total/NA	Solid	Moisture	
400-227628-7	S-22	Total/NA	Solid	Moisture	
400-227628-8	S-28	Total/NA	Solid	Moisture	
400-227628-9	S-29	Total/NA	Solid	Moisture	
400-227628-9 DU	S-29	Total/NA	Solid	Moisture	

Analysis Batch: 598189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227842-1	S-23	Total/NA	Solid	Moisture	
400-227842-2	S-9	Total/NA	Solid	Moisture	
400-227842-3	S-11	Total/NA	Solid	Moisture	
400-227842-4	S-12	Total/NA	Solid	Moisture	
400-227842-5	S-10	Total/NA	Solid	Moisture	
400-227842-6	S-13	Total/NA	Solid	Moisture	
400-227833-B-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 598401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	7196A	
400-227994-3	S-26	Total/NA	Solid	7196A	
400-227994-4	S-27	Total/NA	Solid	7196A	

Analysis Batch: 598479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-1	S-18	Total/NA	Solid	Moisture	
400-227957-2	S-17	Total/NA	Solid	Moisture	
400-227957-4	S-7	Total/NA	Solid	Moisture	
400-227957-5	S-14	Total/NA	Solid	Moisture	
400-227994-1	S-15	Total/NA	Solid	Moisture	
400-227994-2	S-16	Total/NA	Solid	Moisture	
400-227994-3	S-26	Total/NA	Solid	Moisture	
400-227994-4	S-27	Total/NA	Solid	Moisture	
400-227894-A-5 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-227894-A-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-227892-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
400-228018-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 598682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227957-3	S-8	Total/NA	Solid	Moisture	
400-227969-A-11 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 600659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	3060A	
400-227994-3	S-26	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 600659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-4	S-27	Total/NA	Solid	3060A	
MB 400-600659/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 400-600659/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 600686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227994-1	S-15	Total/NA	Solid	7196A	600659
400-227994-3	S-26	Total/NA	Solid	7196A	600659
400-227994-4	S-27	Total/NA	Solid	7196A	600659
MB 400-600659/1-A	Method Blank	Total/NA	Solid	7196A	600659
LCS 400-600659/2-A	Lab Control Sample	Total/NA	Solid	7196A	600659
MRL 400-600686/5	Lab Control Sample	Total/NA	Solid	7196A	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-597840/4
Matrix: Water
Analysis Batch: 597840

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			10/26/22 08:08	1
Ethylbenzene	<1.0		1.0		ug/L			10/26/22 08:08	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			10/26/22 08:08	1
Naphthalene	<5.0		5.0		ug/L			10/26/22 08:08	1
Toluene	<1.0		1.0		ug/L			10/26/22 08:08	1
Xylenes, Total	<10		10		ug/L			10/26/22 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*10/26/22 08:08*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*10/26/22 08:08*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*10/26/22 08:08*	*1*

Lab Sample ID: LCS 400-597840/1002
Matrix: Water
Analysis Batch: 597840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	47.2		ug/L		94	70 - 130
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	45.6		ug/L		91	66 - 130
Naphthalene	50.0	45.9		ug/L		92	47 - 149
Toluene	50.0	47.2		ug/L		94	70 - 130
Xylenes, Total	100	94.5		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-227645-A-6 MS
Matrix: Water
Analysis Batch: 597840

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<1.0		50.0	50.0		ug/L		99	56 - 142
Ethylbenzene	<1.0		50.0	47.2		ug/L		94	58 - 131
Methyl tert-butyl ether	<1.0		50.0	45.6		ug/L		91	59 - 137
Naphthalene	<5.0		50.0	43.0		ug/L		86	25 - 150
Toluene	<1.0		50.0	46.5		ug/L		93	65 - 130
Xylenes, Total	<10		100	92.1		ug/L		92	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 119*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*97*		*64 - 132*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227645-A-6 MSD
Matrix: Water
Analysis Batch: 597840

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<1.0		50.0	50.9		ug/L		100	56 - 142	2	30
Ethylbenzene	<1.0		50.0	48.8		ug/L		98	58 - 131	3	30
Methyl tert-butyl ether	<1.0		50.0	47.5		ug/L		95	59 - 137	4	30
Naphthalene	<5.0		50.0	45.6		ug/L		91	25 - 150	6	30
Toluene	<1.0		50.0	48.4		ug/L		97	65 - 130	4	30
Xylenes, Total	<10		100	95.2		ug/L		95	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 119*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: MB 400-597932/2-A
Matrix: Solid
Analysis Batch: 597859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		10/26/22 08:52	10/26/22 10:44	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/26/22 08:52	10/26/22 10:44	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg		10/26/22 08:52	10/26/22 10:44	1
Naphthalene	<0.0050		0.0050		mg/Kg		10/26/22 08:52	10/26/22 10:44	1
Toluene	<0.0050		0.0050		mg/Kg		10/26/22 08:52	10/26/22 10:44	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/26/22 08:52	10/26/22 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*	*10/26/22 08:52*	*10/26/22 10:44*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*10/26/22 08:52*	*10/26/22 10:44*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/26/22 08:52*	*10/26/22 10:44*	*1*

Lab Sample ID: LCS 400-597932/1-A
Matrix: Solid
Analysis Batch: 597859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0484		mg/Kg		97	65 - 130
Ethylbenzene	0.0500	0.0461		mg/Kg		92	70 - 130
Methyl tert-butyl ether	0.0500	0.0423		mg/Kg		85	63 - 130
Naphthalene	0.0500	0.0342		mg/Kg		68	45 - 144
Toluene	0.0500	0.0470		mg/Kg		94	70 - 130
Xylenes, Total	0.100	0.0911		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*67 - 130*
Dibromofluoromethane	*98*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227628-1 MS
Matrix: Solid
Analysis Batch: 597859

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 597932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0061		0.0604	0.0553		mg/Kg	☼	92	38 - 131
Ethylbenzene	<0.0061		0.0604	0.0567		mg/Kg	☼	94	35 - 130
Methyl tert-butyl ether	<0.0061		0.0604	0.0518		mg/Kg	☼	82	34 - 132
Naphthalene	<0.0061		0.0604	0.0725		mg/Kg	☼	120	10 - 150
Toluene	<0.0061		0.0604	0.0562		mg/Kg	☼	91	42 - 130
Xylenes, Total	<0.012		0.121	0.113		mg/Kg	☼	94	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
Dibromofluoromethane	*94*		*77 - 127*
Toluene-d8 (Surr)	*99*		*76 - 127*

Lab Sample ID: 400-227628-1 MSD
Matrix: Solid
Analysis Batch: 597859

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 597932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0061		0.0603	0.0551		mg/Kg	☼	91	38 - 131	0	36
Ethylbenzene	<0.0061		0.0603	0.0568		mg/Kg	☼	94	35 - 130	0	46
Methyl tert-butyl ether	<0.0061		0.0603	0.0520		mg/Kg	☼	82	34 - 132	0	31
Naphthalene	<0.0061		0.0603	0.0534		mg/Kg	☼	89	10 - 150	30	49
Toluene	<0.0061		0.0603	0.0562		mg/Kg	☼	91	42 - 130	0	37
Xylenes, Total	<0.012		0.121	0.114		mg/Kg	☼	94	35 - 130	0	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
Dibromofluoromethane	*96*		*77 - 127*
Toluene-d8 (Surr)	*99*		*76 - 127*

Lab Sample ID: MB 400-598378/2-A
Matrix: Solid
Analysis Batch: 598359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		10/29/22 08:39	10/29/22 10:55	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/29/22 08:39	10/29/22 10:55	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg		10/29/22 08:39	10/29/22 10:55	1
Naphthalene	<0.0050		0.0050		mg/Kg		10/29/22 08:39	10/29/22 10:55	1
Toluene	<0.0050		0.0050		mg/Kg		10/29/22 08:39	10/29/22 10:55	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/29/22 08:39	10/29/22 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*10/29/22 08:39*	*10/29/22 10:55*	*1*
Dibromofluoromethane	*108*		*77 - 127*	*10/29/22 08:39*	*10/29/22 10:55*	*1*
Toluene-d8 (Surr)	*83*		*76 - 127*	*10/29/22 08:39*	*10/29/22 10:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598378/1-A
Matrix: Solid
Analysis Batch: 598359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0570		mg/Kg		114	65 - 130
Ethylbenzene	0.0500	0.0414		mg/Kg		83	70 - 130
Methyl tert-butyl ether	0.0500	0.0577		mg/Kg		115	63 - 130
Naphthalene	0.0500	0.0477		mg/Kg		95	45 - 144
Toluene	0.0500	0.0407		mg/Kg		81	70 - 130
Xylenes, Total	0.100	0.0837		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
Dibromofluoromethane	*106*		*77 - 127*
Toluene-d8 (Surr)	*84*		*76 - 127*

Lab Sample ID: 680-223863-A-7-C MS
Matrix: Solid
Analysis Batch: 598359

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0053		0.0540	0.0564		mg/Kg	☼	104	38 - 131
Ethylbenzene	<0.0053		0.0540	0.0334		mg/Kg	☼	62	35 - 130
Methyl tert-butyl ether	<0.0053		0.0540	0.0602		mg/Kg	☼	111	34 - 132
Naphthalene	<0.0053		0.0540	0.0322		mg/Kg	☼	60	10 - 150
Toluene	<0.0053		0.0540	0.0368		mg/Kg	☼	68	42 - 130
Xylenes, Total	<0.011		0.108	0.0666		mg/Kg	☼	62	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
Dibromofluoromethane	*108*		*77 - 127*
Toluene-d8 (Surr)	*82*		*76 - 127*

Lab Sample ID: 680-223863-A-7-D MSD
Matrix: Solid
Analysis Batch: 598359

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0053		0.0536	0.0575		mg/Kg	☼	107	38 - 131	2	36
Ethylbenzene	<0.0053		0.0536	0.0317		mg/Kg	☼	59	35 - 130	5	46
Methyl tert-butyl ether	<0.0053		0.0536	0.0599		mg/Kg	☼	112	34 - 132	1	31
Naphthalene	<0.0053		0.0536	0.0332		mg/Kg	☼	62	10 - 150	3	49
Toluene	<0.0053		0.0536	0.0369		mg/Kg	☼	69	42 - 130	0	37
Xylenes, Total	<0.011		0.107	0.0628		mg/Kg	☼	59	35 - 130	6	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
Dibromofluoromethane	*106*		*77 - 127*
Toluene-d8 (Surr)	*83*		*76 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598435/2-A
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,1,2-Trichloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,1-Dichloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,1-Dichloroethene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2,3-Trichlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2,4-Trichlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2-Dichlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,2-Dichloropropane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,3-Dichlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
1,4-Dichlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
2-Hexanone	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Acetone	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Benzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Bromoform	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Bromomethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Carbon disulfide	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Carbon tetrachloride	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Chlorobenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Chlorobromomethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Chloroethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Chloroform	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Chloromethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
cis-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
cis-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Cyclohexane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Dibromochloromethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Bromodichloromethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Dichlorobromomethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Dichlorodifluoromethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Ethylene Dibromide	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
2-Butanone (MEK)	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Isopropylbenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Methyl acetate	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Methylcyclohexane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Methylene Chloride	<0.015		0.015		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		10/30/22 09:23	10/30/22 11:32	1
Naphthalene	<5.0		5.0		ug/Kg		10/30/22 09:23	10/30/22 11:32	1
o-Xylene	<5.0		5.0		ug/Kg		10/30/22 09:23	10/30/22 11:32	1
Styrene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598435/2-A
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Toluene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
trans-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
trans-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Trichloroethene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Vinyl chloride	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/30/22 09:23	10/30/22 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*	*10/30/22 09:23*	*10/30/22 11:32*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*10/30/22 09:23*	*10/30/22 11:32*	*1*
Toluene-d8 (Surr)	*105*		*76 - 127*	*10/30/22 09:23*	*10/30/22 11:32*	*1*

Lab Sample ID: LCS 400-598435/1-A
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0433		mg/Kg		87	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0482		mg/Kg		96	60 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0422		mg/Kg		84	47 - 143
1,1,2-Trichloroethane	0.0500	0.0468		mg/Kg		94	65 - 130
1,1-Dichloroethane	0.0500	0.0432		mg/Kg		86	59 - 130
1,1-Dichloroethene	0.0500	0.0385		mg/Kg		77	55 - 137
1,2,3-Trichlorobenzene	0.0500	0.0670		mg/Kg		134	58 - 135
1,2,4-Trichlorobenzene	0.0500	0.0686		mg/Kg		137	56 - 138
1,2-Dibromo-3-Chloropropane	0.0500	0.0476		mg/Kg		95	49 - 130
1,2-Dichlorobenzene	0.0500	0.0498		mg/Kg		100	64 - 130
1,2-Dichloroethane	0.0500	0.0416		mg/Kg		83	62 - 130
1,2-Dichloropropane	0.0500	0.0450		mg/Kg		90	64 - 130
1,3-Dichlorobenzene	0.0500	0.0502		mg/Kg		100	66 - 130
1,4-Dichlorobenzene	0.0500	0.0490		mg/Kg		98	65 - 130
2-Hexanone	0.200	0.194		mg/Kg		97	57 - 131
Acetone	0.200	0.257		mg/Kg		128	48 - 160
Benzene	0.0500	0.0458		mg/Kg		92	65 - 130
Bromoform	0.0500	0.0454		mg/Kg		91	52 - 136
Bromomethane	0.0500	0.0435		mg/Kg		87	12 - 160
Carbon disulfide	0.0500	0.0436		mg/Kg		87	46 - 141
Carbon tetrachloride	0.0500	0.0409		mg/Kg		82	60 - 130
Chlorobenzene	0.0500	0.0472		mg/Kg		94	70 - 130
Chlorobromomethane	0.0500	0.0415		mg/Kg		83	65 - 130
Chloroethane	0.0500	0.0429		mg/Kg		86	55 - 134
Chloroform	0.0500	0.0429		mg/Kg		86	62 - 130
Chloromethane	0.0500	0.0546		mg/Kg		109	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0435		mg/Kg		87	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0422		mg/Kg		84	61 - 130
Cyclohexane	0.0500	0.0448		mg/Kg		90	61 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598435/1-A
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	0.0500	0.0436		mg/Kg		87	58 - 132
Bromodichloromethane	0.0500	0.0423		mg/Kg		85	61 - 130
Dichlorobromomethane	0.0500	0.0423		mg/Kg		85	61 - 130
Dichlorodifluoromethane	0.0500	0.0525		mg/Kg		105	34 - 143
Ethylbenzene	0.0500	0.0489		mg/Kg		98	70 - 130
Ethylene Dibromide	0.0500	0.0456		mg/Kg		91	67 - 130
2-Butanone (MEK)	0.200	0.190		mg/Kg		95	55 - 130
Isopropylbenzene	0.0500	0.0483		mg/Kg		97	70 - 130
Methyl Ethyl Ketone	0.200	0.190		mg/Kg		95	55 - 130
4-Methyl-2-pentanone (MIBK)	0.200	0.173		mg/Kg		87	58 - 130
Methyl acetate	0.100	0.0848		mg/Kg		85	49 - 139
methyl isobutyl ketone	0.200	0.173		mg/Kg		87	58 - 130
Methyl tert-butyl ether	0.0500	0.0392		mg/Kg		78	63 - 130
Methylcyclohexane	0.0500	0.0448		mg/Kg		90	64 - 130
Methylene Chloride	0.0500	0.0414		mg/Kg		83	57 - 132
m-Xylene & p-Xylene	50.0	46.9		ug/Kg		94	70 - 130
Naphthalene	50.0	67.4		ug/Kg		135	45 - 144
o-Xylene	50.0	46.5		ug/Kg		93	70 - 130
Styrene	0.0500	0.0454		mg/Kg		91	68 - 130
Tetrachloroethene	0.0500	0.0515		mg/Kg		103	67 - 130
Toluene	0.0500	0.0483		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.0426		mg/Kg		85	58 - 134
trans-1,3-Dichloropropene	0.0500	0.0437		mg/Kg		87	60 - 130
Trichloroethene	0.0500	0.0440		mg/Kg		88	65 - 130
Trichlorofluoromethane	0.0500	0.0374		mg/Kg		75	61 - 136
Vinyl chloride	0.0500	0.0456		mg/Kg		91	52 - 132
Xylenes, Total	0.100	0.0935		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
Dibromofluoromethane	*90*		*77 - 127*
Toluene-d8 (Surr)	*104*		*76 - 127*

Lab Sample ID: 400-227894-B-5-B MS
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.0061	F2 F1	0.0592	0.0965	F1	mg/Kg	☼	163	41 - 130
1,1,2,2-Tetrachloroethane	<0.0061	F2 F1	0.0592	0.103	F1	mg/Kg	☼	173	10 - 149
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0061	F2 F1	0.0592	0.0917	F1	mg/Kg	☼	155	32 - 146
1,1,2-Trichloroethane	<0.0061	F2 F1	0.0592	0.105	F1	mg/Kg	☼	177	37 - 130
1,1-Dichloroethane	<0.0061	F2 F1	0.0592	0.104	F1	mg/Kg	☼	175	41 - 130
1,1-Dichloroethene	<0.0061	F2 F1	0.0592	0.0860	F1	mg/Kg	☼	145	39 - 138
1,2,3-Trichlorobenzene	<0.0061	F2 F1	0.0592	0.0984	F1	mg/Kg	☼	166	10 - 146
1,2,4-Trichlorobenzene	<0.0061	F2 F1	0.0592	0.0994	F1	mg/Kg	☼	168	10 - 141
1,2-Dibromo-3-Chloropropane	<0.0061	F2 F1	0.0592	0.0934	F1	mg/Kg	☼	158	14 - 132
1,2-Dichlorobenzene	<0.0061	F2 F1	0.0592	0.0937	F1	mg/Kg	☼	158	20 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227894-B-5-B MS
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.0061	F2 F1	0.0592	0.0943	F1	mg/Kg	☼	159	37 - 130
1,2-Dichloropropane	<0.0061	F2 F1	0.0592	0.104	F1	mg/Kg	☼	176	39 - 130
1,3-Dichlorobenzene	<0.0061	F2 F1	0.0592	0.0934	F1	mg/Kg	☼	158	22 - 130
1,4-Dichlorobenzene	<0.0061	F2 F1	0.0592	0.0886	F1	mg/Kg	☼	150	21 - 130
2-Hexanone	<0.030	F2 F1	0.237	0.386	F1	mg/Kg	☼	163	20 - 142
Acetone	0.12		0.237	0.463		mg/Kg	☼	143	10 - 150
Benzene	<0.0061	F2 F1	0.0592	0.104	F1	mg/Kg	☼	176	38 - 131
Bromoform	<0.0061	F2 F1	0.0592	0.101	F1	mg/Kg	☼	170	24 - 136
Bromomethane	<0.0061		0.0592	0.0564		mg/Kg	☼	95	10 - 150
Carbon disulfide	<0.0061	F2 F1	0.0592	0.0988	F1	mg/Kg	☼	167	29 - 141
Carbon tetrachloride	<0.0061	F2 F1	0.0592	0.0934	F1	mg/Kg	☼	158	36 - 134
Chlorobenzene	<0.0061	F2 F1	0.0592	0.0982	F1	mg/Kg	☼	166	37 - 130
Chlorobromomethane	<0.0061	F2 F1	0.0592	0.0934	F1	mg/Kg	☼	158	37 - 134
Chloroethane	<0.0061		0.0592	0.0532		mg/Kg	☼	90	36 - 139
Chloroform	<0.0061	F2 F1	0.0592	0.0979	F1	mg/Kg	☼	165	39 - 130
Chloromethane	<0.0061		0.0592	0.0674		mg/Kg	☼	114	35 - 136
cis-1,2-Dichloroethene	<0.0061	F2 F1	0.0592	0.100	F1	mg/Kg	☼	169	32 - 135
cis-1,3-Dichloropropene	<0.0061	F2 F1	0.0592	0.0955	F1	mg/Kg	☼	161	34 - 130
Cyclohexane	<0.0061	F2 F1	0.0592	0.0986	F1	mg/Kg	☼	167	33 - 136
Dibromochloromethane	<0.0061	F2 F1	0.0592	0.0936	F1	mg/Kg	☼	158	32 - 132
Bromodichloromethane	<0.0061	F2 F1	0.0592	0.0940	F1	mg/Kg	☼	159	37 - 130
Dichlorobromomethane	<0.0061	F2 F1	0.0592	0.0940	F1	mg/Kg	☼	159	37 - 130
Dichlorodifluoromethane	<0.0061		0.0592	0.0638		mg/Kg	☼	108	21 - 146
Ethylbenzene	<0.0061	F2 F1	0.0592	0.102	F1	mg/Kg	☼	172	35 - 130
Ethylene Dibromide	<0.0061	F2 F1	0.0592	0.0974	F1	mg/Kg	☼	165	35 - 130
2-Butanone (MEK)	<0.030	F2 F1	0.237	0.384	F1	mg/Kg	☼	154	19 - 139
Isopropylbenzene	<0.0061	F2 F1	0.0592	0.0983	F1	mg/Kg	☼	166	31 - 132
Methyl Ethyl Ketone	<0.030	F2 F1	0.237	0.384	F1	mg/Kg	☼	154	19 - 139
4-Methyl-2-pentanone (MIBK)	<0.030	F2 F1	0.237	0.374	F1	mg/Kg	☼	158	21 - 144
Methyl acetate	<0.0061	F2 F1	0.118	0.197	F1	mg/Kg	☼	166	10 - 150
methyl isobutyl ketone	<0.030	F2 F1	0.237	0.374	F1	mg/Kg	☼	158	21 - 144
Methyl tert-butyl ether	<0.0061	F2 F1	0.0592	0.0913	F1	mg/Kg	☼	154	34 - 132
Methylcyclohexane	<0.0061	F2 F1	0.0592	0.0930	F1	mg/Kg	☼	157	29 - 138
Methylene Chloride	<0.018	F2 F1	0.0592	0.0971	F1	mg/Kg	☼	164	36 - 132
m-Xylene & p-Xylene	<6.1	F2 F1	59.2	96.2	F1	ug/Kg	☼	163	35 - 130
Naphthalene	<6.1	F2 F1	59.2	116	F1	ug/Kg	☼	195	10 - 150
o-Xylene	<6.1	F2 F1	59.2	94.8	F1	ug/Kg	☼	160	35 - 130
Styrene	<0.0061	F2 F1	0.0592	0.0939	F1	mg/Kg	☼	159	31 - 130
Tetrachloroethene	<0.0061	F2 F1	0.0592	0.102	F1	mg/Kg	☼	172	27 - 147
Toluene	<0.0061	F2 F1	0.0592	0.103	F1	mg/Kg	☼	173	42 - 130
trans-1,2-Dichloroethene	<0.0061	F2 F1	0.0592	0.0978	F1	mg/Kg	☼	165	40 - 134
trans-1,3-Dichloropropene	<0.0061	F2 F1	0.0592	0.0943	F1	mg/Kg	☼	159	31 - 130
Trichloroethene	<0.0061	F2 F1	0.0592	0.0994	F1	mg/Kg	☼	168	34 - 144
Trichlorofluoromethane	<0.0061		0.0592	0.0447		mg/Kg	☼	76	41 - 143
Vinyl chloride	<0.0061		0.0592	0.0551		mg/Kg	☼	93	35 - 136
Xylenes, Total	<0.012	F2 F1	0.118	0.191	F1	mg/Kg	☼	161	35 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227894-B-5-B MS
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598435

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*96*		*67 - 130*
Dibromofluoromethane	*91*		*77 - 127*
Toluene-d8 (Surr)	*101*		*76 - 127*

Lab Sample ID: 400-227894-B-5-C MSD
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<0.0061	F2 F1	0.0600	0.0484	F2	mg/Kg	☼	81	41 - 130	66	40
1,1,2,2-Tetrachloroethane	<0.0061	F2 F1	0.0600	0.0550	F2	mg/Kg	☼	92	10 - 149	60	44
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0061	F2 F1	0.0600	0.0501	F2	mg/Kg	☼	83	32 - 146	59	58
1,1,2-Trichloroethane	<0.0061	F2 F1	0.0600	0.0545	F2	mg/Kg	☼	91	37 - 130	63	33
1,1-Dichloroethane	<0.0061	F2 F1	0.0600	0.0526	F2	mg/Kg	☼	88	41 - 130	65	35
1,1-Dichloroethene	<0.0061	F2 F1	0.0600	0.0447	F2	mg/Kg	☼	74	39 - 138	63	37
1,2,3-Trichlorobenzene	<0.0061	F2 F1	0.0600	0.0451	F2	mg/Kg	☼	75	10 - 146	74	47
1,2,4-Trichlorobenzene	<0.0061	F2 F1	0.0600	0.0449	F2	mg/Kg	☼	75	10 - 141	76	53
1,2-Dibromo-3-Chloropropane	<0.0061	F2 F1	0.0600	0.0496	F2	mg/Kg	☼	83	14 - 132	61	38
1,2-Dichlorobenzene	<0.0061	F2 F1	0.0600	0.0427	F2	mg/Kg	☼	71	20 - 130	75	40
1,2-Dichloroethane	<0.0061	F2 F1	0.0600	0.0489	F2	mg/Kg	☼	81	37 - 130	63	32
1,2-Dichloropropane	<0.0061	F2 F1	0.0600	0.0519	F2	mg/Kg	☼	86	39 - 130	67	35
1,3-Dichlorobenzene	<0.0061	F2 F1	0.0600	0.0410	F2	mg/Kg	☼	68	22 - 130	78	41
1,4-Dichlorobenzene	<0.0061	F2 F1	0.0600	0.0403	F2	mg/Kg	☼	67	21 - 130	75	40
2-Hexanone	<0.030	F2 F1	0.240	0.198	F2	mg/Kg	☼	82	20 - 142	64	37
Acetone	0.12		0.240	0.317		mg/Kg	☼	80	10 - 150	37	38
Benzene	<0.0061	F2 F1	0.0600	0.0510	F2	mg/Kg	☼	85	38 - 131	69	36
Bromoform	<0.0061	F2 F1	0.0600	0.0513	F2	mg/Kg	☼	85	24 - 136	65	34
Bromomethane	<0.0061		0.0600	0.0468		mg/Kg	☼	78	10 - 150	19	47
Carbon disulfide	<0.0061	F2 F1	0.0600	0.0507	F2	mg/Kg	☼	84	29 - 141	64	39
Carbon tetrachloride	<0.0061	F2 F1	0.0600	0.0458	F2	mg/Kg	☼	76	36 - 134	68	44
Chlorobenzene	<0.0061	F2 F1	0.0600	0.0466	F2	mg/Kg	☼	78	37 - 130	71	37
Chlorobromomethane	<0.0061	F2 F1	0.0600	0.0466	F2	mg/Kg	☼	78	37 - 134	67	38
Chloroethane	<0.0061		0.0600	0.0447		mg/Kg	☼	74	36 - 139	17	42
Chloroform	<0.0061	F2 F1	0.0600	0.0503	F2	mg/Kg	☼	84	39 - 130	64	35
Chloromethane	<0.0061		0.0600	0.0607		mg/Kg	☼	101	35 - 136	10	41
cis-1,2-Dichloroethene	<0.0061	F2 F1	0.0600	0.0494	F2	mg/Kg	☼	82	32 - 135	68	35
cis-1,3-Dichloropropene	<0.0061	F2 F1	0.0600	0.0476	F2	mg/Kg	☼	79	34 - 130	67	35
Cyclohexane	<0.0061	F2 F1	0.0600	0.0500	F2	mg/Kg	☼	83	33 - 136	65	49
Dibromochloromethane	<0.0061	F2 F1	0.0600	0.0485	F2	mg/Kg	☼	81	32 - 132	63	34
Bromodichloromethane	<0.0061	F2 F1	0.0600	0.0471	F2	mg/Kg	☼	78	37 - 130	66	34
Dichlorobromomethane	<0.0061	F2 F1	0.0600	0.0471	F2	mg/Kg	☼	78	37 - 130	66	34
Dichlorodifluoromethane	<0.0061		0.0600	0.0573		mg/Kg	☼	95	21 - 146	11	46
Ethylbenzene	<0.0061	F2 F1	0.0600	0.0472	F2	mg/Kg	☼	79	35 - 130	73	46
Ethylene Dibromide	<0.0061	F2 F1	0.0600	0.0506	F2	mg/Kg	☼	84	35 - 130	63	31
2-Butanone (MEK)	<0.030	F2 F1	0.240	0.216	F2	mg/Kg	☼	82	19 - 139	56	41
Isopropylbenzene	<0.0061	F2 F1	0.0600	0.0433	F2	mg/Kg	☼	72	31 - 132	78	51
Methyl Ethyl Ketone	<0.030	F2 F1	0.240	0.216	F2	mg/Kg	☼	82	19 - 139	56	41
4-Methyl-2-pentanone (MIBK)	<0.030	F2 F1	0.240	0.201	F2	mg/Kg	☼	84	21 - 144	60	39

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227894-B-5-C MSD
Matrix: Solid
Analysis Batch: 598417

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl acetate	<0.0061	F2 F1	0.120	0.108	F2	mg/Kg	☼	90	10 - 150	58	34
methyl isobutyl ketone	<0.030	F2 F1	0.240	0.201	F2	mg/Kg	☼	84	21 - 144	60	39
Methyl tert-butyl ether	<0.0061	F2 F1	0.0600	0.0486	F2	mg/Kg	☼	81	34 - 132	61	31
Methylcyclohexane	<0.0061	F2 F1	0.0600	0.0441	F2	mg/Kg	☼	73	29 - 138	71	46
Methylene Chloride	<0.018	F2 F1	0.0600	0.0522	F2	mg/Kg	☼	87	36 - 132	60	38
m-Xylene & p-Xylene	<6.1	F2 F1	60.0	43.6	F2	ug/Kg	☼	73	35 - 130	75	42
Naphthalene	<6.1	F2 F1	60.0	55.5	F2	ug/Kg	☼	92	10 - 150	70	49
o-Xylene	<6.1	F2 F1	60.0	43.6	F2	ug/Kg	☼	73	35 - 130	74	37
Styrene	<0.0061	F2 F1	0.0600	0.0422	F2	mg/Kg	☼	70	31 - 130	76	39
Tetrachloroethene	<0.0061	F2 F1	0.0600	0.0478	F2	mg/Kg	☼	80	27 - 147	72	44
Toluene	<0.0061	F2 F1	0.0600	0.0516	F2	mg/Kg	☼	86	42 - 130	66	37
trans-1,2-Dichloroethene	<0.0061	F2 F1	0.0600	0.0492	F2	mg/Kg	☼	82	40 - 134	66	38
trans-1,3-Dichloropropene	<0.0061	F2 F1	0.0600	0.0484	F2	mg/Kg	☼	81	31 - 130	64	34
Trichloroethene	<0.0061	F2 F1	0.0600	0.0484	F2	mg/Kg	☼	81	34 - 144	69	42
Trichlorofluoromethane	<0.0061		0.0600	0.0392		mg/Kg	☼	65	41 - 143	13	42
Vinyl chloride	<0.0061		0.0600	0.0494		mg/Kg	☼	82	35 - 136	11	43
Xylenes, Total	<0.012	F2 F1	0.120	0.0872	F2	mg/Kg	☼	73	35 - 130	75	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
Dibromofluoromethane	*88*		*77 - 127*
Toluene-d8 (Surr)	*105*		*76 - 127*

Lab Sample ID: MB 400-599365/4
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			11/05/22 08:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/05/22 08:17	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			11/05/22 08:17	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/05/22 08:17	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
2-Hexanone	<25		25		ug/L			11/05/22 08:17	1
Acetone	<25		25		ug/L			11/05/22 08:17	1
Benzene	<1.0		1.0		ug/L			11/05/22 08:17	1
Bromoform	<5.0		5.0		ug/L			11/05/22 08:17	1
Bromomethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Carbon disulfide	<1.0		1.0		ug/L			11/05/22 08:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			11/05/22 08:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-599365/4
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
Chloroethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Chloroform	<1.0		1.0		ug/L			11/05/22 08:17	1
Chloromethane	<1.0		1.0		ug/L			11/05/22 08:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/05/22 08:17	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			11/05/22 08:17	1
Cyclohexane	<1.0		1.0		ug/L			11/05/22 08:17	1
Dibromochloromethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Bromodichloromethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
Ethylene Dibromide	<1.0		1.0		ug/L			11/05/22 08:17	1
Isopropylbenzene	<1.0		1.0		ug/L			11/05/22 08:17	1
Methyl Ethyl Ketone	<25		25		ug/L			11/05/22 08:17	1
Methyl acetate	<5.0		5.0		ug/L			11/05/22 08:17	1
methyl isobutyl ketone	<25		25		ug/L			11/05/22 08:17	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			11/05/22 08:17	1
Methylcyclohexane	<1.0		1.0		ug/L			11/05/22 08:17	1
Methylene Chloride	<5.0		5.0		ug/L			11/05/22 08:17	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			11/05/22 08:17	1
Naphthalene	<5.0		5.0		ug/L			11/05/22 08:17	1
o-Xylene	<5.0		5.0		ug/L			11/05/22 08:17	1
Styrene	<1.0		1.0		ug/L			11/05/22 08:17	1
Tetrachloroethene	<1.0		1.0		ug/L			11/05/22 08:17	1
Toluene	<1.0		1.0		ug/L			11/05/22 08:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/05/22 08:17	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			11/05/22 08:17	1
Trichloroethene	<1.0		1.0		ug/L			11/05/22 08:17	1
Trichlorofluoromethane	<1.0		1.0		ug/L			11/05/22 08:17	1
Vinyl chloride	<1.0		1.0		ug/L			11/05/22 08:17	1
Xylenes, Total	<10		10		ug/L			11/05/22 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/05/22 08:17*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/05/22 08:17*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/05/22 08:17*	*1*

Lab Sample ID: LCS 400-599365/1002
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	45.2		ug/L		90	68 - 130
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.2		ug/L		86	60 - 139
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	44.5		ug/L		89	70 - 130
1,1-Dichloroethene	50.0	44.2		ug/L		88	63 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-599365/1002
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	44.9		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	54 - 135
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	67 - 130
1,2-Dichloroethane	50.0	48.2		ug/L		96	69 - 130
1,2-Dichloropropane	50.0	46.7		ug/L		93	70 - 130
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
2-Hexanone	200	198		ug/L		99	65 - 137
Acetone	200	269		ug/L		135	43 - 160
Benzene	50.0	46.1		ug/L		92	70 - 130
Bromoform	50.0	43.6		ug/L		87	57 - 140
Bromomethane	50.0	56.9		ug/L		114	10 - 160
Carbon disulfide	50.0	33.8		ug/L		68	61 - 137
Carbon tetrachloride	50.0	46.0		ug/L		92	61 - 137
Chlorobenzene	50.0	47.8		ug/L		96	70 - 130
Chloroethane	50.0	51.5		ug/L		103	55 - 141
Chloroform	50.0	48.3		ug/L		97	69 - 130
Chloromethane	50.0	45.2		ug/L		90	58 - 137
cis-1,2-Dichloroethene	50.0	44.3		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	69 - 132
Cyclohexane	50.0	40.7		ug/L		81	70 - 130
Dibromochloromethane	50.0	47.5		ug/L		95	67 - 135
Bromodichloromethane	50.0	47.8		ug/L		96	67 - 133
Dichlorodifluoromethane	50.0	38.4		ug/L		77	41 - 146
Ethylbenzene	50.0	47.1		ug/L		94	70 - 130
Ethylene Dibromide	50.0	46.4		ug/L		93	70 - 130
Isopropylbenzene	50.0	45.8		ug/L		92	70 - 130
Methyl Ethyl Ketone	200	206		ug/L		103	61 - 145
Methyl acetate	100	93.4		ug/L		93	45 - 159
methyl isobutyl ketone	200	200		ug/L		100	69 - 138
Methyl tert-butyl ether	50.0	43.3		ug/L		87	66 - 130
Methylcyclohexane	50.0	40.9		ug/L		82	70 - 130
Methylene Chloride	50.0	42.5		ug/L		85	66 - 135
m-Xylene & p-Xylene	50.0	46.6		ug/L		93	70 - 130
Naphthalene	50.0	42.1		ug/L		84	47 - 149
o-Xylene	50.0	46.7		ug/L		93	70 - 130
Styrene	50.0	47.8		ug/L		96	70 - 130
Tetrachloroethene	50.0	42.0		ug/L		84	65 - 130
Toluene	50.0	45.4		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	43.4		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.0	45.2		ug/L		90	63 - 130
Trichloroethene	50.0	42.9		ug/L		86	70 - 130
Trichlorofluoromethane	50.0	52.2		ug/L		104	65 - 138
Vinyl chloride	50.0	40.1		ug/L		80	59 - 136
Xylenes, Total	100	93.3		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 119*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-599365/1002
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-227895-A-3 MS
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<2.0		100	79.7		ug/L		80	57 - 142
1,1,2,2-Tetrachloroethane	<2.0		100	93.2		ug/L		93	66 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		100	70.5		ug/L		70	55 - 150
1,1,2-Trichloroethane	<10		100	90.0		ug/L		90	66 - 131
1,1-Dichloroethane	<2.0		100	78.4		ug/L		78	61 - 144
1,1-Dichloroethene	<2.0		100	73.7		ug/L		74	54 - 147
1,2,4-Trichlorobenzene	<2.0		100	86.6		ug/L		87	39 - 148
1,2-Dibromo-3-Chloropropane	<10		100	76.7		ug/L		77	45 - 135
1,2-Dichlorobenzene	<2.0		100	86.6		ug/L		87	52 - 137
1,2-Dichloroethane	<2.0		100	84.4		ug/L		84	60 - 141
1,2-Dichloropropane	<2.0		100	85.3		ug/L		85	66 - 137
1,3-Dichlorobenzene	<2.0		100	89.6		ug/L		90	54 - 135
1,4-Dichlorobenzene	<2.0		100	88.1		ug/L		88	53 - 135
2-Hexanone	<50		400	343		ug/L		86	65 - 140
Acetone	<50	F1	400	907	F1	ug/L		227	43 - 150
Benzene	140		100	202		ug/L		61	56 - 142
Bromoform	<10		100	77.4		ug/L		77	50 - 140
Bromomethane	<2.0		100	51.2		ug/L		51	10 - 150
Carbon disulfide	<2.0		100	56.5		ug/L		57	48 - 150
Carbon tetrachloride	<2.0		100	78.9		ug/L		79	55 - 145
Chlorobenzene	<2.0		100	86.2		ug/L		86	64 - 130
Chloroethane	<2.0		100	83.9		ug/L		84	50 - 150
Chloroform	<2.0		100	85.7		ug/L		86	60 - 141
Chloromethane	<2.0		100	75.2		ug/L		75	49 - 148
cis-1,2-Dichloroethene	<2.0		100	78.3		ug/L		78	59 - 143
cis-1,3-Dichloropropene	<10		100	80.9		ug/L		81	57 - 140
Cyclohexane	100	F1	100	159	F1	ug/L		57	58 - 141
Dibromochloromethane	<2.0		100	83.3		ug/L		83	56 - 143
Bromodichloromethane	<2.0		100	79.8		ug/L		80	59 - 143
Dichlorodifluoromethane	<2.0		100	66.9		ug/L		67	16 - 150
Ethylbenzene	280	F1	100	312	F1	ug/L		36	58 - 131
Ethylene Dibromide	<2.0		100	83.9		ug/L		84	64 - 132
Isopropylbenzene	280	F1	100	319	F1	ug/L		42	56 - 133
Methyl Ethyl Ketone	<50		400	354		ug/L		89	55 - 150
Methyl acetate	<10		200	160		ug/L		80	21 - 150
methyl isobutyl ketone	<50		400	352		ug/L		88	63 - 146
Methyl tert-butyl ether	22		100	101		ug/L		79	59 - 137
Methylcyclohexane	66		100	136		ug/L		70	62 - 141
Methylene Chloride	<10		100	77.2		ug/L		77	60 - 146
m-Xylene & p-Xylene	<10		100	90.1		ug/L		83	57 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227895-A-3 MS
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	180		100	245		ug/L		62	25 - 150
o-Xylene	<10		100	86.3		ug/L		86	61 - 130
Styrene	<2.0		100	84.9		ug/L		85	58 - 131
Tetrachloroethene	<2.0		100	77.4		ug/L		77	52 - 133
Toluene	13		100	93.8		ug/L		81	65 - 130
trans-1,2-Dichloroethene	<2.0		100	75.2		ug/L		75	61 - 143
trans-1,3-Dichloropropene	<10		100	81.3		ug/L		81	53 - 133
Trichloroethene	<2.0		100	78.4		ug/L		78	64 - 136
Trichlorofluoromethane	<2.0		100	91.1		ug/L		91	54 - 150
Vinyl chloride	<2.0		100	68.1		ug/L		68	46 - 150
Xylenes, Total	<20		200	176		ug/L		85	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*97*		*64 - 132*

Lab Sample ID: 400-227895-A-3 MSD
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<2.0		100	86.9		ug/L		87	57 - 142	9	30
1,1,2,2-Tetrachloroethane	<2.0		100	99.1		ug/L		99	66 - 135	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		100	76.6		ug/L		77	55 - 150	8	30
1,1,2-Trichloroethane	<10		100	97.1		ug/L		97	66 - 131	8	30
1,1-Dichloroethane	<2.0		100	86.5		ug/L		87	61 - 144	10	30
1,1-Dichloroethene	<2.0		100	76.9		ug/L		77	54 - 147	4	30
1,2,4-Trichlorobenzene	<2.0		100	91.5		ug/L		92	39 - 148	6	30
1,2-Dibromo-3-Chloropropane	<10		100	81.0		ug/L		81	45 - 135	6	30
1,2-Dichlorobenzene	<2.0		100	94.8		ug/L		95	52 - 137	9	30
1,2-Dichloroethane	<2.0		100	90.4		ug/L		90	60 - 141	7	30
1,2-Dichloropropane	<2.0		100	89.0		ug/L		89	66 - 137	4	30
1,3-Dichlorobenzene	<2.0		100	96.9		ug/L		97	54 - 135	8	30
1,4-Dichlorobenzene	<2.0		100	95.8		ug/L		96	53 - 135	8	30
2-Hexanone	<50		400	363		ug/L		91	65 - 140	6	30
Acetone	<50	F1	400	895	F1	ug/L		224	43 - 150	1	30
Benzene	140		100	200		ug/L		60	56 - 142	1	30
Bromoform	<10		100	82.0		ug/L		82	50 - 140	6	30
Bromomethane	<2.0		100	81.9		ug/L		82	10 - 150	46	50
Carbon disulfide	<2.0		100	62.6		ug/L		63	48 - 150	10	30
Carbon tetrachloride	<2.0		100	86.5		ug/L		87	55 - 145	9	30
Chlorobenzene	<2.0		100	92.3		ug/L		92	64 - 130	7	30
Chloroethane	<2.0		100	92.6		ug/L		93	50 - 150	10	30
Chloroform	<2.0		100	91.2		ug/L		91	60 - 141	6	30
Chloromethane	<2.0		100	81.4		ug/L		81	49 - 148	8	31
cis-1,2-Dichloroethene	<2.0		100	83.9		ug/L		84	59 - 143	7	30
cis-1,3-Dichloropropene	<10		100	87.6		ug/L		88	57 - 140	8	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227895-A-3 MSD
Matrix: Water
Analysis Batch: 599365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyclohexane	100	F1	100	159	F1	ug/L		57	58 - 141	0	30
Dibromochloromethane	<2.0		100	91.1		ug/L		91	56 - 143	9	30
Bromodichloromethane	<2.0		100	86.9		ug/L		87	59 - 143	9	30
Dichlorodifluoromethane	<2.0		100	84.6		ug/L		85	16 - 150	23	31
Ethylbenzene	280	F1	100	311	F1	ug/L		35	58 - 131	0	30
Ethylene Dibromide	<2.0		100	90.0		ug/L		90	64 - 132	7	30
Isopropylbenzene	280	F1	100	323	F1	ug/L		45	56 - 133	1	30
Methyl Ethyl Ketone	<50		400	376		ug/L		94	55 - 150	6	30
Methyl acetate	<10		200	171		ug/L		85	21 - 150	7	30
methyl isobutyl ketone	<50		400	367		ug/L		92	63 - 146	4	30
Methyl tert-butyl ether	22		100	108		ug/L		86	59 - 137	7	30
Methylcyclohexane	66		100	140		ug/L		75	62 - 141	4	30
Methylene Chloride	<10		100	83.1		ug/L		83	60 - 146	7	32
m-Xylene & p-Xylene	<10		100	97.7		ug/L		90	57 - 130	8	30
Naphthalene	180		100	259		ug/L		76	25 - 150	6	30
o-Xylene	<10		100	94.7		ug/L		95	61 - 130	9	30
Styrene	<2.0		100	92.3		ug/L		92	58 - 131	8	30
Tetrachloroethene	<2.0		100	84.4		ug/L		84	52 - 133	9	30
Toluene	13		100	101		ug/L		88	65 - 130	7	30
trans-1,2-Dichloroethene	<2.0		100	82.6		ug/L		83	61 - 143	9	30
trans-1,3-Dichloropropene	<10		100	89.1		ug/L		89	53 - 133	9	30
Trichloroethene	<2.0		100	84.9		ug/L		85	64 - 136	8	30
Trichlorofluoromethane	<2.0		100	100		ug/L		100	54 - 150	9	30
Vinyl chloride	<2.0		100	77.6		ug/L		78	46 - 150	13	30
Xylenes, Total	<20		200	192		ug/L		93	59 - 130	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*72 - 119*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: MB 400-599574/2-A
Matrix: Solid
Analysis Batch: 599489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.0		5.0		ug/Kg		11/07/22 11:10	11/07/22 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*	*11/07/22 11:10*	*11/07/22 12:51*	*1*
Dibromofluoromethane	*103*		*77 - 127*	*11/07/22 11:10*	*11/07/22 12:51*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*11/07/22 11:10*	*11/07/22 12:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-599574/1-A
Matrix: Solid
Analysis Batch: 599489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599574

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			50.0	40.8		ug/Kg		82	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*67 - 130*
Dibromofluoromethane	*104*		*77 - 127*
Toluene-d8 (Surr)	*95*		*76 - 127*

Lab Sample ID: 400-228257-A-1-C MS
Matrix: Solid
Analysis Batch: 599489

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene	<9.3		93.8	24.2		ug/Kg	☼	26	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
Dibromofluoromethane	*106*		*77 - 127*
Toluene-d8 (Surr)	*94*		*76 - 127*

Lab Sample ID: 400-228257-A-1-D MSD
Matrix: Solid
Analysis Batch: 599489

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	<9.3		92.5	22.6		ug/Kg	☼	24	10 - 150	7	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*67 - 130*
Dibromofluoromethane	*105*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-598258/1-A
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4,5-Trichlorophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4,6-Trichlorophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4-Dichlorophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4-Dimethylphenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4-Dinitrophenol	<0.99		0.99		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,4-Dinitrotoluene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2,6-Dinitrotoluene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2-Chloronaphthalene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2-Chlorophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598258/1-A
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2-Methylphenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2-Nitroaniline	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
2-Nitrophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
3 & 4 Methylphenol	<0.66		0.66		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
3,3'-Dichlorobenzidine	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
3-Nitroaniline	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4,6-Dinitro-2-methylphenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Bromophenyl phenyl ether	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Chloro-3-methylphenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Chloroaniline	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Chlorophenyl phenyl ether	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Nitroaniline	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
4-Nitrophenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Acenaphthene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Acenaphthylene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Acetophenone	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Anthracene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Atrazine	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzaldehyde	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzo[a]anthracene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzo[a]pyrene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzo[b]fluoranthene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzo[g,h,i]perylene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Benzo[k]fluoranthene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
bis (2-chloroisopropyl) ether	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Bis(2-chloroethoxy)methane	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Bis(2-chloroethyl)ether	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Bis(2-ethylhexyl) phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Butyl benzyl phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Caprolactam	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Carbazole	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Chrysene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Dibenz(a,h)anthracene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Dibenzofuran	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Diethyl phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Dimethyl phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Di-n-butyl phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Di-n-octyl phthalate	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Fluoranthene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Fluorene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Hexachlorobenzene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Hexachlorobutadiene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Hexachlorocyclopentadiene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Hexachloroethane	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Indeno[1,2,3-cd]pyrene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Isophorone	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Naphthalene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Nitrobenzene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598258/1-A
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
N-Nitrosodiphenylamine	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Pentachlorophenol	<0.66		0.66		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Phenanthrene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Phenol	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1
Pyrene	<0.33		0.33		mg/Kg		10/28/22 11:10	10/31/22 19:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 150*	*10/28/22 11:10*	*10/31/22 19:20*	*1*
2-Fluorobiphenyl	*71*		*27 - 127*	*10/28/22 11:10*	*10/31/22 19:20*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 128*	*10/28/22 11:10*	*10/31/22 19:20*	*1*
Nitrobenzene-d5 (Surr)	*78*		*15 - 136*	*10/28/22 11:10*	*10/31/22 19:20*	*1*
Phenol-d5 (Surr)	*80*		*29 - 130*	*10/28/22 11:10*	*10/31/22 19:20*	*1*
Terphenyl-d14 (Surr)	*105*		*24 - 146*	*10/28/22 11:10*	*10/31/22 19:20*	*1*

Lab Sample ID: LCS 400-598258/2-A
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	2.00	1.61		mg/Kg		80	56 - 120
2,4,5-Trichlorophenol	2.00	1.93		mg/Kg		97	53 - 133
2,4,6-Trichlorophenol	2.00	1.93		mg/Kg		97	51 - 125
2,4-Dichlorophenol	2.00	1.87		mg/Kg		94	56 - 120
2,4-Dimethylphenol	2.00	1.86		mg/Kg		93	54 - 120
2,4-Dinitrophenol	4.00	5.11		mg/Kg		128	10 - 138
2,4-Dinitrotoluene	2.00	1.88		mg/Kg		94	59 - 133
2,6-Dinitrotoluene	2.00	1.64		mg/Kg		82	57 - 123
2-Chloronaphthalene	2.00	1.55		mg/Kg		78	55 - 120
2-Chlorophenol	2.00	1.76		mg/Kg		88	52 - 120
2-Methylnaphthalene	2.00	1.72		mg/Kg		86	40 - 120
2-Methylphenol	2.00	1.79		mg/Kg		89	51 - 123
2-Nitroaniline	2.00	1.88		mg/Kg		94	55 - 129
2-Nitrophenol	2.00	1.71		mg/Kg		85	53 - 120
3 & 4 Methylphenol	2.00	1.82		mg/Kg		91	47 - 123
3,3'-Dichlorobenzidine	2.67	2.67		mg/Kg		100	42 - 120
3-Nitroaniline	2.00	1.72		mg/Kg		86	45 - 120
4,6-Dinitro-2-methylphenol	4.00	5.85	*+	mg/Kg		146	35 - 135
4-Bromophenyl phenyl ether	2.00	2.00		mg/Kg		100	51 - 120
4-Chloro-3-methylphenol	2.00	1.98		mg/Kg		99	57 - 124
4-Chloroaniline	2.00	1.11		mg/Kg		55	34 - 120
4-Chlorophenyl phenyl ether	2.00	1.82		mg/Kg		91	56 - 120
4-Nitroaniline	2.00	1.74		mg/Kg		87	52 - 126
4-Nitrophenol	4.00	5.26		mg/Kg		132	38 - 133
Acenaphthene	2.00	1.74		mg/Kg		87	50 - 120
Acenaphthylene	2.00	1.66		mg/Kg		83	50 - 120
Acetophenone	2.00	1.55		mg/Kg		77	52 - 120
Anthracene	2.00	1.96		mg/Kg		98	52 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598258/2-A
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	2.00	1.83		mg/Kg		92	44 - 120
Benzaldehyde	2.00	0.830		mg/Kg		42	20 - 120
Benzo[a]anthracene	2.00	2.03		mg/Kg		102	55 - 120
Benzo[a]pyrene	2.00	2.24		mg/Kg		112	54 - 120
Benzo[b]fluoranthene	2.00	2.24		mg/Kg		112	55 - 120
Benzo[g,h,i]perylene	2.00	2.63	*+	mg/Kg		132	45 - 120
Benzo[k]fluoranthene	2.00	2.31		mg/Kg		116	52 - 120
bis (2-chloroisopropyl) ether	2.00	1.69		mg/Kg		84	34 - 120
Bis(2-chloroethoxy)methane	2.00	1.44		mg/Kg		72	52 - 120
Bis(2-chloroethyl)ether	2.00	1.32		mg/Kg		66	28 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.83		mg/Kg		91	58 - 158
Butyl benzyl phthalate	2.00	1.93		mg/Kg		97	58 - 126
Caprolactam	2.00	1.57		mg/Kg		78	53 - 127
Carbazole	2.00	2.19		mg/Kg		110	61 - 132
Chrysene	2.00	2.00		mg/Kg		100	54 - 120
Dibenz(a,h)anthracene	2.00	2.83	*+	mg/Kg		141	49 - 120
Dibenzofuran	2.00	1.68		mg/Kg		84	58 - 120
Diethyl phthalate	2.00	2.06		mg/Kg		103	56 - 128
Dimethyl phthalate	2.00	1.81		mg/Kg		90	58 - 120
Di-n-butyl phthalate	2.00	2.03		mg/Kg		102	64 - 122
Di-n-octyl phthalate	2.00	1.86		mg/Kg		93	57 - 137
Fluoranthene	2.00	1.99		mg/Kg		100	49 - 120
Fluorene	2.00	1.91		mg/Kg		95	47 - 120
Hexachlorobenzene	2.00	2.18		mg/Kg		109	49 - 127
Hexachlorobutadiene	2.00	1.85		mg/Kg		93	43 - 120
Hexachlorocyclopentadiene	2.00	1.45		mg/Kg		73	10 - 140
Hexachloroethane	2.00	1.64		mg/Kg		82	45 - 120
Indeno[1,2,3-cd]pyrene	2.00	2.83	*+	mg/Kg		141	47 - 120
Isophorone	2.00	1.55		mg/Kg		78	50 - 120
Naphthalene	2.00	1.68		mg/Kg		84	41 - 120
Nitrobenzene	2.00	1.52		mg/Kg		76	50 - 120
N-Nitrosodi-n-propylamine	2.00	1.71		mg/Kg		86	48 - 120
N-Nitrosodiphenylamine	1.98	1.84		mg/Kg		93	54 - 120
Pentachlorophenol	4.00	4.35		mg/Kg		109	32 - 131
Phenanthrene	2.00	2.01		mg/Kg		100	50 - 120
Phenol	2.00	1.83		mg/Kg		92	51 - 120
Pyrene	2.00	1.97		mg/Kg		98	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*126*		*10 - 150*
2-Fluorobiphenyl	*79*		*27 - 127*
2-Fluorophenol (Surr)	*80*		*25 - 128*
Nitrobenzene-d5 (Surr)	*84*		*15 - 136*
Phenol-d5 (Surr)	*87*		*29 - 130*
Terphenyl-d14 (Surr)	*108*		*24 - 146*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227907-D-12-A MS
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.43		2.52	1.99		mg/Kg	☼	79	40 - 140
2,4,5-Trichlorophenol	<0.43		2.52	2.37		mg/Kg	☼	94	40 - 140
2,4,6-Trichlorophenol	<0.43		2.52	2.38		mg/Kg	☼	95	40 - 140
2,4-Dichlorophenol	<0.43		2.52	2.29		mg/Kg	☼	91	40 - 140
2,4-Dimethylphenol	<0.43		2.52	2.25		mg/Kg	☼	90	40 - 140
2,4-Dinitrophenol	<1.3		5.03	3.80		mg/Kg	☼	76	40 - 140
2,4-Dinitrotoluene	<0.43		2.52	2.34		mg/Kg	☼	93	40 - 140
2,6-Dinitrotoluene	<0.43		2.52	2.11		mg/Kg	☼	84	40 - 140
2-Chloronaphthalene	<0.43		2.52	1.92		mg/Kg	☼	76	40 - 140
2-Chlorophenol	<0.43		2.52	2.21		mg/Kg	☼	88	40 - 140
2-Methylnaphthalene	<0.43		2.52	2.15		mg/Kg	☼	85	40 - 140
2-Methylphenol	<0.43		2.52	2.18		mg/Kg	☼	87	40 - 140
2-Nitroaniline	<0.43		2.52	2.29		mg/Kg	☼	91	40 - 140
2-Nitrophenol	<0.43		2.52	2.09		mg/Kg	☼	83	40 - 140
3 & 4 Methylphenol	<0.86		2.52	2.27		mg/Kg	☼	90	40 - 140
3,3'-Dichlorobenzidine	<0.43		3.35	3.98		mg/Kg	☼	118	40 - 140
3-Nitroaniline	<0.43		2.52	2.23		mg/Kg	☼	89	40 - 140
4,6-Dinitro-2-methylphenol	<0.43	*+	5.03	5.97		mg/Kg	☼	119	40 - 140
4-Bromophenyl phenyl ether	<0.43		2.52	2.54		mg/Kg	☼	101	40 - 140
4-Chloro-3-methylphenol	<0.43		2.52	2.49		mg/Kg	☼	99	40 - 140
4-Chloroaniline	<0.43		2.52	1.53		mg/Kg	☼	61	40 - 140
4-Chlorophenyl phenyl ether	<0.43		2.52	2.29		mg/Kg	☼	91	40 - 140
4-Nitroaniline	<0.43		2.52	2.19		mg/Kg	☼	87	40 - 140
4-Nitrophenol	<0.43		5.03	6.54		mg/Kg	☼	130	40 - 140
Acenaphthene	<0.43		2.52	2.17		mg/Kg	☼	86	40 - 140
Acenaphthylene	<0.43		2.52	2.10		mg/Kg	☼	83	40 - 140
Acetophenone	<0.43		2.52	1.93		mg/Kg	☼	77	40 - 140
Anthracene	<0.43		2.52	2.53		mg/Kg	☼	101	40 - 140
Atrazine	<0.43		2.52	2.48		mg/Kg	☼	99	40 - 140
Benzaldehyde	<0.43		2.52	1.24		mg/Kg	☼	49	40 - 140
Benzo[a]anthracene	<0.43		2.52	2.59		mg/Kg	☼	103	40 - 140
Benzo[a]pyrene	<0.43		2.52	2.88		mg/Kg	☼	112	40 - 140
Benzo[b]fluoranthene	<0.43		2.52	2.90		mg/Kg	☼	115	40 - 140
Benzo[g,h,i]perylene	<0.43	*+	2.52	3.46		mg/Kg	☼	138	40 - 140
Benzo[k]fluoranthene	<0.43		2.52	3.02		mg/Kg	☼	120	40 - 140
bis (2-chloroisopropyl) ether	<0.43		2.52	2.13		mg/Kg	☼	85	40 - 140
Bis(2-chloroethoxy)methane	<0.43		2.52	1.78		mg/Kg	☼	71	40 - 140
Bis(2-chloroethyl)ether	<0.43		2.52	1.72		mg/Kg	☼	68	40 - 140
Bis(2-ethylhexyl) phthalate	<0.43		2.52	2.42		mg/Kg	☼	96	40 - 140
Butyl benzyl phthalate	<0.43		2.52	2.47		mg/Kg	☼	98	40 - 140
Caprolactam	<0.43		2.52	1.96		mg/Kg	☼	78	40 - 140
Carbazole	<0.43		2.52	2.83		mg/Kg	☼	112	40 - 140
Chrysene	<0.43		2.52	2.56		mg/Kg	☼	102	40 - 140
Dibenz(a,h)anthracene	<0.43	F1 *+	2.52	3.76	F1	mg/Kg	☼	150	40 - 140
Dibenzofuran	<0.43		2.52	2.12		mg/Kg	☼	84	40 - 140
Diethyl phthalate	<0.43		2.52	2.69		mg/Kg	☼	107	40 - 140
Dimethyl phthalate	<0.43		2.52	2.31		mg/Kg	☼	92	40 - 140
Di-n-butyl phthalate	<0.43		2.52	2.71		mg/Kg	☼	108	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227907-D-12-A MS
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	<0.43		2.52	2.54		mg/Kg	☼	101	40 - 140
Fluoranthene	<0.43		2.52	2.64		mg/Kg	☼	105	40 - 140
Fluorene	<0.43		2.52	2.43		mg/Kg	☼	97	40 - 140
Hexachlorobenzene	<0.43		2.52	2.81		mg/Kg	☼	112	40 - 140
Hexachlorobutadiene	<0.43		2.52	2.28		mg/Kg	☼	91	40 - 140
Hexachlorocyclopentadiene	<0.43		2.52	1.77		mg/Kg	☼	70	40 - 140
Hexachloroethane	<0.43		2.52	2.03		mg/Kg	☼	81	40 - 140
Indeno[1,2,3-cd]pyrene	<0.43	F1 *+	2.52	3.77	F1	mg/Kg	☼	150	40 - 140
Isophorone	<0.43		2.52	1.95		mg/Kg	☼	78	40 - 140
Naphthalene	<0.43		2.52	2.09		mg/Kg	☼	83	40 - 140
Nitrobenzene	<0.43		2.52	1.81		mg/Kg	☼	72	40 - 140
N-Nitrosodi-n-propylamine	<0.43		2.52	2.11		mg/Kg	☼	84	40 - 140
N-Nitrosodiphenylamine	<0.43		2.50	2.34		mg/Kg	☼	94	40 - 140
Pentachlorophenol	<0.86		5.03	4.97		mg/Kg	☼	99	40 - 140
Phenanthrene	<0.43		2.52	2.60		mg/Kg	☼	103	40 - 140
Phenol	<0.43		2.52	2.27		mg/Kg	☼	90	40 - 140
Pyrene	<0.43		2.52	2.42		mg/Kg	☼	96	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*118*		*10 - 150*
2-Fluorobiphenyl	*74*		*27 - 127*
2-Fluorophenol (Surr)	*75*		*25 - 128*
Nitrobenzene-d5 (Surr)	*82*		*15 - 136*
Phenol-d5 (Surr)	*82*		*29 - 130*
Terphenyl-d14 (Surr)	*100*		*24 - 146*

Lab Sample ID: 400-227907-D-12-B MSD
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.43		2.53	1.81		mg/Kg	☼	71	40 - 140	10	30
2,4,5-Trichlorophenol	<0.43		2.53	2.20		mg/Kg	☼	87	40 - 140	7	30
2,4,6-Trichlorophenol	<0.43		2.53	2.12		mg/Kg	☼	84	40 - 140	12	30
2,4-Dichlorophenol	<0.43		2.53	2.15		mg/Kg	☼	85	40 - 140	7	30
2,4-Dimethylphenol	<0.43		2.53	2.06		mg/Kg	☼	81	40 - 140	9	30
2,4-Dinitrophenol	<1.3		5.06	3.34		mg/Kg	☼	66	40 - 140	13	30
2,4-Dinitrotoluene	<0.43		2.53	2.14		mg/Kg	☼	84	40 - 140	9	30
2,6-Dinitrotoluene	<0.43		2.53	1.84		mg/Kg	☼	73	40 - 140	14	30
2-Chloronaphthalene	<0.43		2.53	1.77		mg/Kg	☼	70	40 - 140	8	30
2-Chlorophenol	<0.43		2.53	2.07		mg/Kg	☼	82	40 - 140	6	30
2-Methylnaphthalene	<0.43		2.53	1.99		mg/Kg	☼	79	40 - 140	8	30
2-Methylphenol	<0.43		2.53	2.07		mg/Kg	☼	82	40 - 140	5	30
2-Nitroaniline	<0.43		2.53	2.13		mg/Kg	☼	84	40 - 140	7	30
2-Nitrophenol	<0.43		2.53	1.96		mg/Kg	☼	78	40 - 140	6	30
3 & 4 Methylphenol	<0.86		2.53	2.08		mg/Kg	☼	82	40 - 140	9	30
3,3'-Dichlorobenzidine	<0.43		3.38	3.46		mg/Kg	☼	103	40 - 140	14	30
3-Nitroaniline	<0.43		2.53	2.09		mg/Kg	☼	82	40 - 140	6	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227907-D-12-B MSD
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	<0.43	*+	5.06	5.35		mg/Kg	☼	106	40 - 140	11	30
4-Bromophenyl phenyl ether	<0.43		2.53	2.27		mg/Kg	☼	90	40 - 140	11	30
4-Chloro-3-methylphenol	<0.43		2.53	2.28		mg/Kg	☼	90	40 - 140	9	30
4-Chloroaniline	<0.43		2.53	1.39		mg/Kg	☼	55	40 - 140	10	30
4-Chlorophenyl phenyl ether	<0.43		2.53	2.06		mg/Kg	☼	81	40 - 140	11	30
4-Nitroaniline	<0.43		2.53	2.00		mg/Kg	☼	79	40 - 140	9	30
4-Nitrophenol	<0.43		5.06	6.20		mg/Kg	☼	122	40 - 140	5	30
Acenaphthene	<0.43		2.53	1.93		mg/Kg	☼	76	40 - 140	12	30
Acenaphthylene	<0.43		2.53	1.91		mg/Kg	☼	75	40 - 140	9	30
Acetophenone	<0.43		2.53	1.80		mg/Kg	☼	71	40 - 140	6	30
Anthracene	<0.43		2.53	2.25		mg/Kg	☼	89	40 - 140	12	30
Atrazine	<0.43		2.53	2.22		mg/Kg	☼	88	40 - 140	11	30
Benzaldehyde	<0.43		2.53	1.16		mg/Kg	☼	46	40 - 140	7	30
Benzo[a]anthracene	<0.43		2.53	2.35		mg/Kg	☼	93	40 - 140	10	30
Benzo[a]pyrene	<0.43		2.53	2.58		mg/Kg	☼	99	40 - 140	11	30
Benzo[b]fluoranthene	<0.43		2.53	2.67		mg/Kg	☼	105	40 - 140	8	30
Benzo[g,h,i]perylene	<0.43	*+	2.53	3.03		mg/Kg	☼	120	40 - 140	13	30
Benzo[k]fluoranthene	<0.43		2.53	2.67		mg/Kg	☼	105	40 - 140	12	30
bis (2-chloroisopropyl) ether	<0.43		2.53	1.99		mg/Kg	☼	79	40 - 140	7	30
Bis(2-chloroethoxy)methane	<0.43		2.53	1.64		mg/Kg	☼	65	40 - 140	8	30
Bis(2-chloroethyl)ether	<0.43		2.53	1.54		mg/Kg	☼	61	40 - 140	11	30
Bis(2-ethylhexyl) phthalate	<0.43		2.53	2.20		mg/Kg	☼	87	40 - 140	10	30
Butyl benzyl phthalate	<0.43		2.53	2.19		mg/Kg	☼	87	40 - 140	12	30
Caprolactam	<0.43		2.53	1.81		mg/Kg	☼	71	40 - 140	8	30
Carbazole	<0.43		2.53	2.57		mg/Kg	☼	101	40 - 140	10	30
Chrysene	<0.43		2.53	2.31		mg/Kg	☼	91	40 - 140	11	30
Dibenz(a,h)anthracene	<0.43	F1 *+	2.53	3.32		mg/Kg	☼	131	40 - 140	12	30
Dibenzofuran	<0.43		2.53	1.89		mg/Kg	☼	75	40 - 140	11	30
Diethyl phthalate	<0.43		2.53	2.39		mg/Kg	☼	95	40 - 140	11	30
Dimethyl phthalate	<0.43		2.53	2.07		mg/Kg	☼	82	40 - 140	11	30
Di-n-butyl phthalate	<0.43		2.53	2.37		mg/Kg	☼	94	40 - 140	13	30
Di-n-octyl phthalate	<0.43		2.53	2.30		mg/Kg	☼	91	40 - 140	10	30
Fluoranthene	<0.43		2.53	2.35		mg/Kg	☼	93	40 - 140	12	30
Fluorene	<0.43		2.53	2.15		mg/Kg	☼	85	40 - 140	12	30
Hexachlorobenzene	<0.43		2.53	2.50		mg/Kg	☼	99	40 - 140	12	30
Hexachlorobutadiene	<0.43		2.53	2.16		mg/Kg	☼	85	40 - 140	5	30
Hexachlorocyclopentadiene	<0.43		2.53	1.70		mg/Kg	☼	67	40 - 140	4	30
Hexachloroethane	<0.43		2.53	1.94		mg/Kg	☼	77	40 - 140	4	30
Indeno[1,2,3-cd]pyrene	<0.43	F1 *+	2.53	3.35		mg/Kg	☼	132	40 - 140	12	30
Isophorone	<0.43		2.53	1.78		mg/Kg	☼	70	40 - 140	9	30
Naphthalene	<0.43		2.53	2.02		mg/Kg	☼	80	40 - 140	3	30
Nitrobenzene	<0.43		2.53	1.73		mg/Kg	☼	68	40 - 140	4	30
N-Nitrosodi-n-propylamine	<0.43		2.53	2.06		mg/Kg	☼	81	40 - 140	3	30
N-Nitrosodiphenylamine	<0.43		2.51	2.10		mg/Kg	☼	84	40 - 140	11	30
Pentachlorophenol	<0.86		5.06	4.24		mg/Kg	☼	84	40 - 140	16	30
Phenanthrene	<0.43		2.53	2.29		mg/Kg	☼	91	40 - 140	13	30
Phenol	<0.43		2.53	2.15		mg/Kg	☼	85	40 - 140	5	30
Pyrene	<0.43		2.53	2.15		mg/Kg	☼	85	40 - 140	12	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-227907-D-12-B MSD
Matrix: Solid
Analysis Batch: 598504

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598258

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*108*		*10 - 150*
2-Fluorobiphenyl	*68*		*27 - 127*
2-Fluorophenol (Surr)	*72*		*25 - 128*
Nitrobenzene-d5 (Surr)	*76*		*15 - 136*
Phenol-d5 (Surr)	*78*		*29 - 130*
Terphenyl-d14 (Surr)	*90*		*24 - 146*

Lab Sample ID: MB 400-598664/1-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4,5-Trichlorophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4,6-Trichlorophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4-Dichlorophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4-Dimethylphenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4-Dinitrophenol	<30		30		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,4-Dinitrotoluene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,6-Dinitrotoluene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Chloronaphthalene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Chlorophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Methylnaphthalene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Methylphenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Nitroaniline	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2-Nitrophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
3 & 4 Methylphenol	<20		20		ug/L		11/01/22 08:36	11/02/22 16:29	1
3,3'-Dichlorobenzidine	<11		11		ug/L		11/01/22 08:36	11/02/22 16:29	1
3-Nitroaniline	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Bromophenyl phenyl ether	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Chloro-3-methylphenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Chloroaniline	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Nitroaniline	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
4-Nitrophenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Acenaphthene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Acenaphthylene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Acetophenone	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Anthracene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Atrazine	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzaldehyde	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzo[a]anthracene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzo[a]pyrene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzo[b]fluoranthene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzo[g,h,i]perylene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
2,2'-oxybis(1-chloropropane)	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Benzo[k]fluoranthene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598664/1-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Bis(2-chloroethyl)ether	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Butyl benzyl phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Caprolactam	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Carbazole	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Chrysene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Dibenz(a,h)anthracene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Dibenzofuran	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Diethyl phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Dimethyl phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Di-n-butyl phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Di-n-octyl phthalate	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Fluoranthene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Fluorene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Hexachlorobenzene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Hexachlorobutadiene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Hexachlorocyclopentadiene	<20		20		ug/L		11/01/22 08:36	11/02/22 16:29	1
Hexachloroethane	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Isophorone	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Naphthalene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Nitrobenzene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
N-Nitrosodiphenylamine	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Pentachlorophenol	<20		20		ug/L		11/01/22 08:36	11/02/22 16:29	1
Phenanthrene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Phenol	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1
Pyrene	<10		10		ug/L		11/01/22 08:36	11/02/22 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*	*11/01/22 08:36*	*11/02/22 16:29*	*1*
2-Fluorobiphenyl	*82*		*21 - 114*	*11/01/22 08:36*	*11/02/22 16:29*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 105*	*11/01/22 08:36*	*11/02/22 16:29*	*1*
Nitrobenzene-d5 (Surr)	*74*		*16 - 127*	*11/01/22 08:36*	*11/02/22 16:29*	*1*
Phenol-d5 (Surr)	*42*		*10 - 129*	*11/01/22 08:36*	*11/02/22 16:29*	*1*
Terphenyl-d14 (Surr)	*106*		*13 - 150*	*11/01/22 08:36*	*11/02/22 16:29*	*1*

Lab Sample ID: LCS 400-598664/2-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	120	101		ug/L		84	24 - 130
2,4,5-Trichlorophenol	120	118		ug/L		98	30 - 144
2,4,6-Trichlorophenol	120	110		ug/L		91	27 - 147
2,4-Dichlorophenol	120	119		ug/L		100	33 - 132
2,4-Dimethylphenol	120	101		ug/L		84	38 - 132

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598664/2-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrophenol	240	209		ug/L		87	15 - 150
2,4-Dinitrotoluene	120	124		ug/L		103	35 - 136
2,6-Dinitrotoluene	120	113		ug/L		94	29 - 140
2-Chloronaphthalene	120	102		ug/L		85	24 - 132
2-Chlorophenol	120	99.2		ug/L		83	27 - 124
2-Methylnaphthalene	120	115		ug/L		96	28 - 129
2-Methylphenol	120	101		ug/L		84	34 - 124
2-Nitroaniline	120	96.3		ug/L		80	24 - 139
2-Nitrophenol	120	110		ug/L		92	25 - 148
3 & 4 Methylphenol	120	96.5		ug/L		80	32 - 122
3,3'-Dichlorobenzidine	240	205		ug/L		85	10 - 150
3-Nitroaniline	120	74.8		ug/L		62	10 - 128
4,6-Dinitro-2-methylphenol	240	252		ug/L		105	14 - 150
4-Bromophenyl phenyl ether	120	126		ug/L		105	17 - 150
4-Chloro-3-methylphenol	120	128		ug/L		107	37 - 131
4-Chloroaniline	120	77.8		ug/L		65	10 - 124
4-Chlorophenyl phenyl ether	120	124		ug/L		103	27 - 147
4-Nitroaniline	120	87.7		ug/L		73	28 - 118
4-Nitrophenol	240	199		ug/L		83	12 - 129
Acenaphthene	120	111		ug/L		93	23 - 140
Acenaphthylene	120	114		ug/L		95	31 - 133
Acetophenone	120	99.7		ug/L		83	28 - 126
Anthracene	120	119		ug/L		99	31 - 146
Atrazine	120	119		ug/L		99	10 - 150
Benzaldehyde	120	75.4		ug/L		63	10 - 150
Benzo[a]anthracene	120	114		ug/L		95	25 - 148
Benzo[a]pyrene	120	120		ug/L		100	16 - 150
Benzo[b]fluoranthene	120	111		ug/L		92	15 - 150
Benzo[g,h,i]perylene	120	112		ug/L		94	10 - 150
2,2'-oxybis(1-chloropropane)	120	69.2		ug/L		58	14 - 123
Benzo[k]fluoranthene	120	111		ug/L		92	15 - 150
Bis(2-chloroethoxy)methane	120	93.4		ug/L		78	24 - 125
Bis(2-chloroethyl)ether	120	70.2		ug/L		59	10 - 121
Bis(2-ethylhexyl) phthalate	120	125		ug/L		104	16 - 150
Butyl benzyl phthalate	120	125		ug/L		104	21 - 150
Caprolactam	120	39.1		ug/L		33	10 - 143
Carbazole	120	112		ug/L		93	37 - 145
Chrysene	120	116		ug/L		97	23 - 150
Dibenz(a,h)anthracene	120	110		ug/L		92	10 - 150
Dibenzofuran	120	114		ug/L		95	30 - 135
Diethyl phthalate	120	125		ug/L		104	37 - 145
Dimethyl phthalate	120	120		ug/L		100	32 - 137
Di-n-butyl phthalate	120	119		ug/L		99	27 - 150
Di-n-octyl phthalate	120	121		ug/L		100	26 - 150
Fluoranthene	120	125		ug/L		104	27 - 150
Fluorene	120	121		ug/L		101	29 - 143
Hexachlorobenzene	120	135		ug/L		113	10 - 150
Hexachlorobutadiene	120	89.9		ug/L		75	10 - 150
Hexachlorocyclopentadiene	120	70.7		ug/L		59	10 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598664/2-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexachloroethane			120	66.6		ug/L		55	10 - 127		
Indeno[1,2,3-cd]pyrene			120	112		ug/L		93	10 - 150		
Isophorone			120	99.7		ug/L		83	28 - 127		
Naphthalene			120	91.8		ug/L		76	24 - 128		
Nitrobenzene			120	91.0		ug/L		76	29 - 120		
N-Nitrosodi-n-propylamine			120	94.9		ug/L		79	24 - 142		
N-Nitrosodiphenylamine			119	108		ug/L		90	29 - 138		
Pentachlorophenol			240	250		ug/L		104	19 - 150		
Phenanthrene			120	115		ug/L		96	30 - 143		
Phenol			120	64.9		ug/L		54	11 - 95		
Pyrene			120	125		ug/L		104	21 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*112*		*10 - 150*
2-Fluorobiphenyl	*84*		*21 - 114*
2-Fluorophenol (Surr)	*66*		*10 - 105*
Nitrobenzene-d5 (Surr)	*82*		*16 - 127*
Phenol-d5 (Surr)	*54*		*10 - 129*
Terphenyl-d14 (Surr)	*106*		*13 - 150*

Lab Sample ID: LCSD 400-598664/3-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598664

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			120	106		ug/L		89	24 - 130	6	40
2,4,5-Trichlorophenol			120	125		ug/L		104	30 - 144	6	40
2,4,6-Trichlorophenol			120	116		ug/L		96	27 - 147	5	40
2,4-Dichlorophenol			120	124		ug/L		103	33 - 132	4	40
2,4-Dimethylphenol			120	104		ug/L		86	38 - 132	2	40
2,4-Dinitrophenol			240	235		ug/L		98	15 - 150	12	40
2,4-Dinitrotoluene			120	131		ug/L		109	35 - 136	5	40
2,6-Dinitrotoluene			120	119		ug/L		99	29 - 140	6	40
2-Chloronaphthalene			120	107		ug/L		89	24 - 132	5	40
2-Chlorophenol			120	101		ug/L		84	27 - 124	2	40
2-Methylnaphthalene			120	119		ug/L		99	28 - 129	4	40
2-Methylphenol			120	104		ug/L		87	34 - 124	3	40
2-Nitroaniline			120	100		ug/L		84	24 - 139	4	40
2-Nitrophenol			120	116		ug/L		96	25 - 148	5	40
3 & 4 Methylphenol			120	98.6		ug/L		82	32 - 122	2	40
3,3'-Dichlorobenzidine			240	223		ug/L		93	10 - 150	9	40
3-Nitroaniline			120	80.4		ug/L		67	10 - 128	7	40
4,6-Dinitro-2-methylphenol			240	271		ug/L		113	14 - 150	7	40
4-Bromophenyl phenyl ether			120	133		ug/L		111	17 - 150	5	40
4-Chloro-3-methylphenol			120	132		ug/L		110	37 - 131	3	40
4-Chloroaniline			120	82.1		ug/L		68	10 - 124	5	40
4-Chlorophenyl phenyl ether			120	131		ug/L		109	27 - 147	5	40
4-Nitroaniline			120	90.5		ug/L		75	28 - 118	3	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-598664/3-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598664

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			240	225		ug/L		94	12 - 129	12	40
Acenaphthene			120	116		ug/L		96	23 - 140	4	40
Acenaphthylene			120	120		ug/L		100	31 - 133	5	40
Acetophenone			120	102		ug/L		85	28 - 126	2	40
Anthracene			120	124		ug/L		103	31 - 146	4	40
Atrazine			120	125		ug/L		104	10 - 150	5	40
Benzaldehyde			120	76.7		ug/L		64	10 - 150	2	40
Benzo[a]anthracene			120	123		ug/L		103	25 - 148	8	40
Benzo[a]pyrene			120	127		ug/L		106	16 - 150	5	40
Benzo[b]fluoranthene			120	117		ug/L		98	15 - 150	6	40
Benzo[g,h,i]perylene			120	119		ug/L		99	10 - 150	6	40
2,2'-oxybis(1-chloropropane)			120	71.3		ug/L		59	14 - 123	3	40
Benzo[k]fluoranthene			120	115		ug/L		96	15 - 150	4	40
Bis(2-chloroethoxy)methane			120	96.2		ug/L		80	24 - 125	3	40
Bis(2-chloroethyl)ether			120	72.3		ug/L		60	10 - 121	3	40
Bis(2-ethylhexyl) phthalate			120	129		ug/L		108	16 - 150	3	40
Butyl benzyl phthalate			120	128		ug/L		106	21 - 150	2	40
Caprolactam			120	30.4		ug/L		25	10 - 143	25	40
Carbazole			120	127		ug/L		106	37 - 145	13	40
Chrysene			120	124		ug/L		103	23 - 150	6	40
Dibenz(a,h)anthracene			120	118		ug/L		99	10 - 150	7	40
Dibenzofuran			120	120		ug/L		100	30 - 135	5	40
Diethyl phthalate			120	130		ug/L		109	37 - 145	4	40
Dimethyl phthalate			120	125		ug/L		105	32 - 137	4	40
Di-n-butyl phthalate			120	124		ug/L		103	27 - 150	4	40
Di-n-octyl phthalate			120	126		ug/L		105	26 - 150	4	40
Fluoranthene			120	129		ug/L		108	27 - 150	3	40
Fluorene			120	125		ug/L		104	29 - 143	3	40
Hexachlorobenzene			120	142		ug/L		118	10 - 150	5	40
Hexachlorobutadiene			120	92.3		ug/L		77	10 - 150	3	40
Hexachlorocyclopentadiene			120	77.7		ug/L		65	10 - 124	9	40
Hexachloroethane			120	67.8		ug/L		56	10 - 127	2	40
Indeno[1,2,3-cd]pyrene			120	121		ug/L		101	10 - 150	8	40
Isophorone			120	102		ug/L		85	28 - 127	3	40
Naphthalene			120	93.6		ug/L		78	24 - 128	2	40
Nitrobenzene			120	92.7		ug/L		77	29 - 120	2	40
N-Nitrosodi-n-propylamine			120	96.5		ug/L		80	24 - 142	2	40
N-Nitrosodiphenylamine			119	115		ug/L		96	29 - 138	6	40
Pentachlorophenol			240	270		ug/L		113	19 - 150	8	40
Phenanthrene			120	120		ug/L		100	30 - 143	4	40
Phenol			120	67.7		ug/L		56	11 - 95	4	40
Pyrene			120	130		ug/L		108	21 - 149	4	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*110*		*10 - 150*
2-Fluorobiphenyl	*83*		*21 - 114*
2-Fluorophenol (Surr)	*64*		*10 - 105*
Nitrobenzene-d5 (Surr)	*81*		*16 - 127*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-598664/3-A
Matrix: Water
Analysis Batch: 598902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598664

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Phenol-d5 (Surr)	55		10 - 129
Terphenyl-d14 (Surr)	104		13 - 150

Lab Sample ID: MB 400-598666/1-A
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4,5-Trichlorophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4,6-Trichlorophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4-Dichlorophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4-Dimethylphenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4-Dinitrophenol	<0.99		0.99		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,4-Dinitrotoluene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2,6-Dinitrotoluene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Chloronaphthalene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Chlorophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Methylnaphthalene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Methylphenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Nitroaniline	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
2-Nitrophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
3 & 4 Methylphenol	<0.66		0.66		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
3,3'-Dichlorobenzidine	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
3-Nitroaniline	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4,6-Dinitro-2-methylphenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Bromophenyl phenyl ether	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Chloro-3-methylphenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Chloroaniline	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Chlorophenyl phenyl ether	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Nitroaniline	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
4-Nitrophenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Acenaphthene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Acenaphthylene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Acetophenone	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Anthracene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Atrazine	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzaldehyde	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzo[a]anthracene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzo[a]pyrene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzo[b]fluoranthene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzo[g,h,i]perylene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Benzo[k]fluoranthene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
bis (2-chloroisopropyl) ether	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Bis(2-chloroethoxy)methane	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Bis(2-chloroethyl)ether	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Bis(2-ethylhexyl) phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Butyl benzyl phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-598666/1-A
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Carbazole	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Chrysene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Dibenz(a,h)anthracene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Dibenzofuran	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Diethyl phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Dimethyl phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Di-n-butyl phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Di-n-octyl phthalate	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Fluoranthene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Fluorene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Hexachlorobenzene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Hexachlorobutadiene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Hexachlorocyclopentadiene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Hexachloroethane	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Indeno[1,2,3-cd]pyrene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Isophorone	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Naphthalene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Nitrobenzene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
N-Nitrosodi-n-propylamine	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
N-Nitrosodiphenylamine	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Pentachlorophenol	<0.66		0.66		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Phenanthrene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Phenol	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1
Pyrene	<0.33		0.33		mg/Kg		11/01/22 08:43	11/02/22 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 150*	*11/01/22 08:43*	*11/02/22 18:20*	*1*
2-Fluorobiphenyl	*65*		*27 - 127*	*11/01/22 08:43*	*11/02/22 18:20*	*1*
2-Fluorophenol (Surr)	*58*		*25 - 128*	*11/01/22 08:43*	*11/02/22 18:20*	*1*
Nitrobenzene-d5 (Surr)	*55*		*15 - 136*	*11/01/22 08:43*	*11/02/22 18:20*	*1*
Phenol-d5 (Surr)	*57*		*29 - 130*	*11/01/22 08:43*	*11/02/22 18:20*	*1*
Terphenyl-d14 (Surr)	*72*		*24 - 146*	*11/01/22 08:43*	*11/02/22 18:20*	*1*

Lab Sample ID: LCS 400-598666/2-A
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	2.00	1.47		mg/Kg		73	56 - 120
2,4,5-Trichlorophenol	2.00	1.72		mg/Kg		86	53 - 133
2,4,6-Trichlorophenol	2.00	1.65		mg/Kg		82	51 - 125
2,4-Dichlorophenol	2.00	1.66		mg/Kg		83	56 - 120
2,4-Dimethylphenol	2.00	1.48		mg/Kg		74	54 - 120
2,4-Dinitrophenol	4.00	1.99		mg/Kg		50	10 - 138
2,4-Dinitrotoluene	2.00	1.83		mg/Kg		92	59 - 133
2,6-Dinitrotoluene	2.00	1.65		mg/Kg		82	57 - 123
2-Chloronaphthalene	2.00	1.53		mg/Kg		76	55 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598666/2-A
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	2.00	1.48		mg/Kg		74	52 - 120
2-Methylnaphthalene	2.00	1.65		mg/Kg		82	40 - 120
2-Methylphenol	2.00	1.51		mg/Kg		75	51 - 123
2-Nitroaniline	2.00	1.36		mg/Kg		68	55 - 129
2-Nitrophenol	2.00	1.50		mg/Kg		75	53 - 120
3 & 4 Methylphenol	2.00	1.45		mg/Kg		73	47 - 123
3,3'-Dichlorobenzidine	2.67	2.90		mg/Kg		109	42 - 120
3-Nitroaniline	2.00	1.34		mg/Kg		67	45 - 120
4,6-Dinitro-2-methylphenol	4.00	3.11		mg/Kg		78	35 - 135
4-Bromophenyl phenyl ether	2.00	1.84		mg/Kg		92	51 - 120
4-Chloro-3-methylphenol	2.00	1.78		mg/Kg		89	57 - 124
4-Chloroaniline	2.00	1.16		mg/Kg		58	34 - 120
4-Chlorophenyl phenyl ether	2.00	1.77		mg/Kg		89	56 - 120
4-Nitroaniline	2.00	1.65		mg/Kg		83	52 - 126
4-Nitrophenol	4.00	3.31		mg/Kg		83	38 - 133
Acenaphthene	2.00	1.60		mg/Kg		80	50 - 120
Acenaphthylene	2.00	1.65		mg/Kg		83	50 - 120
Acetophenone	2.00	1.30		mg/Kg		65	52 - 120
Anthracene	2.00	1.76		mg/Kg		88	52 - 120
Atrazine	2.00	1.67		mg/Kg		84	44 - 120
Benzaldehyde	2.00	1.01		mg/Kg		51	20 - 120
Benzo[a]anthracene	2.00	1.67		mg/Kg		84	55 - 120
Benzo[a]pyrene	2.00	1.69		mg/Kg		85	54 - 120
Benzo[b]fluoranthene	2.00	1.77		mg/Kg		88	55 - 120
Benzo[g,h,i]perylene	2.00	1.61		mg/Kg		81	45 - 120
Benzo[k]fluoranthene	2.00	1.56		mg/Kg		78	52 - 120
bis (2-chloroisopropyl) ether	2.00	1.03		mg/Kg		52	34 - 120
Bis(2-chloroethoxy)methane	2.00	1.23		mg/Kg		61	52 - 120
Bis(2-chloroethyl)ether	2.00	1.15		mg/Kg		58	28 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.75		mg/Kg		88	58 - 158
Butyl benzyl phthalate	2.00	1.73		mg/Kg		87	58 - 126
Caprolactam	2.00	1.24		mg/Kg		62	53 - 127
Carbazole	2.00	2.02		mg/Kg		101	61 - 132
Chrysene	2.00	1.62		mg/Kg		81	54 - 120
Dibenz(a,h)anthracene	2.00	1.69		mg/Kg		84	49 - 120
Dibenzofuran	2.00	1.67		mg/Kg		84	58 - 120
Diethyl phthalate	2.00	1.78		mg/Kg		89	56 - 128
Dimethyl phthalate	2.00	1.71		mg/Kg		86	58 - 120
Di-n-butyl phthalate	2.00	1.75		mg/Kg		88	64 - 122
Di-n-octyl phthalate	2.00	1.75		mg/Kg		87	57 - 137
Fluoranthene	2.00	1.85		mg/Kg		93	49 - 120
Fluorene	2.00	1.78		mg/Kg		89	47 - 120
Hexachlorobenzene	2.00	1.96		mg/Kg		98	49 - 127
Hexachlorobutadiene	2.00	1.58		mg/Kg		79	43 - 120
Hexachlorocyclopentadiene	2.00	1.30		mg/Kg		65	10 - 140
Hexachloroethane	2.00	1.32		mg/Kg		66	45 - 120
Indeno[1,2,3-cd]pyrene	2.00	1.73		mg/Kg		87	47 - 120
Isophorone	2.00	1.29		mg/Kg		65	50 - 120
Naphthalene	2.00	1.36		mg/Kg		68	41 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-598666/2-A
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	2.00	1.23		mg/Kg		61	50 - 120
N-Nitrosodi-n-propylamine	2.00	1.33		mg/Kg		67	48 - 120
N-Nitrosodiphenylamine	1.98	1.63		mg/Kg		82	54 - 120
Pentachlorophenol	4.00	3.50		mg/Kg		87	32 - 131
Phenanthrene	2.00	1.70		mg/Kg		85	50 - 120
Phenol	2.00	1.30		mg/Kg		65	51 - 120
Pyrene	2.00	1.76		mg/Kg		88	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*10 - 150*
2-Fluorobiphenyl	*76*		*27 - 127*
2-Fluorophenol (Surr)	*70*		*25 - 128*
Nitrobenzene-d5 (Surr)	*71*		*15 - 136*
Phenol-d5 (Surr)	*70*		*29 - 130*
Terphenyl-d14 (Surr)	*90*		*24 - 146*

Lab Sample ID: 660-124686-B-1-A MS
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.70		2.15	1.65		mg/Kg	☼	77	40 - 140
2,4,5-Trichlorophenol	<0.70		2.15	1.87		mg/Kg	☼	87	40 - 140
2,4,6-Trichlorophenol	<0.70		2.15	1.76		mg/Kg	☼	82	40 - 140
2,4-Dichlorophenol	<0.70		2.15	1.82		mg/Kg	☼	85	40 - 140
2,4-Dimethylphenol	<0.70		2.15	1.74		mg/Kg	☼	81	40 - 140
2,4-Dinitrophenol	<2.1		4.30	2.42		mg/Kg	☼	56	40 - 140
2,4-Dinitrotoluene	<0.70		2.15	1.94		mg/Kg	☼	90	40 - 140
2,6-Dinitrotoluene	<0.70		2.15	1.79		mg/Kg	☼	83	40 - 140
2-Chloronaphthalene	<0.70		2.15	1.70		mg/Kg	☼	79	40 - 140
2-Chlorophenol	<0.70		2.15	1.60		mg/Kg	☼	74	40 - 140
2-Methylnaphthalene	<0.70		2.15	1.88		mg/Kg	☼	88	40 - 140
2-Methylphenol	<0.70		2.15	1.67		mg/Kg	☼	78	40 - 140
2-Nitroaniline	<0.70		2.15	1.54		mg/Kg	☼	72	40 - 140
2-Nitrophenol	<0.70		2.15	1.71		mg/Kg	☼	79	40 - 140
3 & 4 Methylphenol	<1.4		2.15	1.56		mg/Kg	☼	72	40 - 140
3,3'-Dichlorobenzidine	<0.70		2.87	3.37		mg/Kg	☼	117	40 - 140
3-Nitroaniline	<0.70		2.15	1.41		mg/Kg	☼	66	40 - 140
4,6-Dinitro-2-methylphenol	<0.70		4.30	3.41		mg/Kg	☼	79	40 - 140
4-Bromophenyl phenyl ether	<0.70		2.15	1.98		mg/Kg	☼	92	40 - 140
4-Chloro-3-methylphenol	<0.70		2.15	1.91		mg/Kg	☼	89	40 - 140
4-Chloroaniline	<0.70		2.15	1.55		mg/Kg	☼	72	40 - 140
4-Chlorophenyl phenyl ether	<0.70		2.15	1.92		mg/Kg	☼	89	40 - 140
4-Nitroaniline	<0.70		2.15	1.67		mg/Kg	☼	78	40 - 140
4-Nitrophenol	<0.70		4.30	3.42		mg/Kg	☼	79	40 - 140
Acenaphthene	<0.70		2.15	1.83		mg/Kg	☼	85	40 - 140
Acenaphthylene	<0.70		2.15	1.89		mg/Kg	☼	88	40 - 140
Acetophenone	<0.70		2.15	1.54		mg/Kg	☼	72	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-124686-B-1-A MS
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.70		2.15	1.99		mg/Kg	☼	92	40 - 140
Atrazine	<0.70		2.15	2.03		mg/Kg	☼	94	40 - 140
Benzaldehyde	<0.70		2.15	1.15		mg/Kg	☼	53	40 - 140
Benzo[a]anthracene	<0.70		2.15	1.99		mg/Kg	☼	79	40 - 140
Benzo[a]pyrene	<0.70		2.15	2.17		mg/Kg	☼	79	40 - 140
Benzo[b]fluoranthene	<0.70		2.15	2.24		mg/Kg	☼	76	40 - 140
Benzo[g,h,i]perylene	<0.70		2.15	2.10		mg/Kg	☼	76	40 - 140
Benzo[k]fluoranthene	<0.70		2.15	1.94		mg/Kg	☼	81	40 - 140
bis (2-chloroisopropyl) ether	<0.70		2.15	1.15		mg/Kg	☼	53	40 - 140
Bis(2-chloroethoxy)methane	<0.70		2.15	1.43		mg/Kg	☼	67	40 - 140
Bis(2-chloroethyl)ether	<0.70		2.15	1.21		mg/Kg	☼	56	40 - 140
Bis(2-ethylhexyl) phthalate	<0.70		2.15	2.06		mg/Kg	☼	96	40 - 140
Butyl benzyl phthalate	<0.70		2.15	2.01		mg/Kg	☼	93	40 - 140
Caprolactam	<0.70		2.15	1.40		mg/Kg	☼	65	40 - 140
Carbazole	<0.70		2.15	2.16		mg/Kg	☼	101	40 - 140
Chrysene	<0.70		2.15	2.05		mg/Kg	☼	78	40 - 140
Dibenz(a,h)anthracene	<0.70		2.15	1.83		mg/Kg	☼	85	40 - 140
Dibenzofuran	<0.70		2.15	1.85		mg/Kg	☼	86	40 - 140
Diethyl phthalate	<0.70		2.15	1.98		mg/Kg	☼	92	40 - 140
Dimethyl phthalate	<0.70		2.15	1.89		mg/Kg	☼	88	40 - 140
Di-n-butyl phthalate	<0.70		2.15	1.97		mg/Kg	☼	92	40 - 140
Di-n-octyl phthalate	<0.70		2.15	2.06		mg/Kg	☼	96	40 - 140
Fluoranthene	<0.70		2.15	2.17		mg/Kg	☼	75	40 - 140
Fluorene	<0.70		2.15	1.96		mg/Kg	☼	91	40 - 140
Hexachlorobenzene	<0.70		2.15	2.06		mg/Kg	☼	96	40 - 140
Hexachlorobutadiene	<0.70		2.15	1.79		mg/Kg	☼	83	40 - 140
Hexachlorocyclopentadiene	<0.70	F1	2.15	0.939		mg/Kg	☼	44	40 - 140
Hexachloroethane	<0.70		2.15	1.39		mg/Kg	☼	65	40 - 140
Indeno[1,2,3-cd]pyrene	<0.70		2.15	1.99		mg/Kg	☼	78	40 - 140
Isophorone	<0.70		2.15	1.48		mg/Kg	☼	69	40 - 140
Naphthalene	<0.70		2.15	1.59		mg/Kg	☼	74	40 - 140
Nitrobenzene	<0.70		2.15	1.41		mg/Kg	☼	66	40 - 140
N-Nitrosodi-n-propylamine	<0.70		2.15	1.47		mg/Kg	☼	69	40 - 140
N-Nitrosodiphenylamine	<0.70		2.13	1.80		mg/Kg	☼	84	40 - 140
Pentachlorophenol	<1.4		4.30	3.52		mg/Kg	☼	82	40 - 140
Phenanthrene	<0.70		2.15	1.90		mg/Kg	☼	83	40 - 140
Phenol	<0.70		2.15	1.42		mg/Kg	☼	66	40 - 140
Pyrene	<0.70		2.15	2.19		mg/Kg	☼	78	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*122*		*10 - 150*
2-Fluorobiphenyl	*80*		*27 - 127*
2-Fluorophenol (Surr)	*70*		*25 - 128*
Nitrobenzene-d5 (Surr)	*76*		*15 - 136*
Phenol-d5 (Surr)	*70*		*29 - 130*
Terphenyl-d14 (Surr)	*91*		*24 - 146*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-124686-B-1-B MSD
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.70		2.12	1.70		mg/Kg	☼	80	40 - 140	3	30
2,4,5-Trichlorophenol	<0.70		2.12	1.84		mg/Kg	☼	87	40 - 140	1	30
2,4,6-Trichlorophenol	<0.70		2.12	1.83		mg/Kg	☼	86	40 - 140	4	30
2,4-Dichlorophenol	<0.70		2.12	1.87		mg/Kg	☼	88	40 - 140	2	30
2,4-Dimethylphenol	<0.70		2.12	1.79		mg/Kg	☼	85	40 - 140	3	30
2,4-Dinitrophenol	<2.1		4.23	2.28		mg/Kg	☼	54	40 - 140	6	30
2,4-Dinitrotoluene	<0.70		2.12	1.95		mg/Kg	☼	92	40 - 140	0	30
2,6-Dinitrotoluene	<0.70		2.12	1.81		mg/Kg	☼	85	40 - 140	1	30
2-Chloronaphthalene	<0.70		2.12	1.73		mg/Kg	☼	82	40 - 140	2	30
2-Chlorophenol	<0.70		2.12	1.65		mg/Kg	☼	78	40 - 140	4	30
2-Methylnaphthalene	<0.70		2.12	1.92		mg/Kg	☼	91	40 - 140	2	30
2-Methylphenol	<0.70		2.12	1.70		mg/Kg	☼	80	40 - 140	2	30
2-Nitroaniline	<0.70		2.12	1.55		mg/Kg	☼	73	40 - 140	1	30
2-Nitrophenol	<0.70		2.12	1.74		mg/Kg	☼	82	40 - 140	2	30
3 & 4 Methylphenol	<1.4		2.12	1.63		mg/Kg	☼	77	40 - 140	4	30
3,3'-Dichlorobenzidine	<0.70		2.82	3.28		mg/Kg	☼	116	40 - 140	3	30
3-Nitroaniline	<0.70		2.12	1.42		mg/Kg	☼	67	40 - 140	0	30
4,6-Dinitro-2-methylphenol	<0.70		4.23	3.11		mg/Kg	☼	74	40 - 140	9	30
4-Bromophenyl phenyl ether	<0.70		2.12	1.95		mg/Kg	☼	92	40 - 140	2	30
4-Chloro-3-methylphenol	<0.70		2.12	1.97		mg/Kg	☼	93	40 - 140	3	30
4-Chloroaniline	<0.70		2.12	1.55		mg/Kg	☼	73	40 - 140	0	30
4-Chlorophenyl phenyl ether	<0.70		2.12	1.95		mg/Kg	☼	92	40 - 140	2	30
4-Nitroaniline	<0.70		2.12	1.75		mg/Kg	☼	83	40 - 140	5	30
4-Nitrophenol	<0.70		4.23	3.45		mg/Kg	☼	81	40 - 140	1	30
Acenaphthene	<0.70		2.12	1.86		mg/Kg	☼	88	40 - 140	2	30
Acenaphthylene	<0.70		2.12	1.98		mg/Kg	☼	93	40 - 140	4	30
Acetophenone	<0.70		2.12	1.55		mg/Kg	☼	73	40 - 140	1	30
Anthracene	<0.70		2.12	1.92		mg/Kg	☼	91	40 - 140	3	30
Atrazine	<0.70		2.12	2.10		mg/Kg	☼	99	40 - 140	4	30
Benzaldehyde	<0.70		2.12	1.32		mg/Kg	☼	62	40 - 140	14	30
Benzo[a]anthracene	<0.70		2.12	1.89		mg/Kg	☼	76	40 - 140	5	30
Benzo[a]pyrene	<0.70		2.12	2.05		mg/Kg	☼	74	40 - 140	6	30
Benzo[b]fluoranthene	<0.70		2.12	2.24		mg/Kg	☼	77	40 - 140	0	30
Benzo[g,h,i]perylene	<0.70		2.12	2.03		mg/Kg	☼	74	40 - 140	3	30
Benzo[k]fluoranthene	<0.70		2.12	1.80		mg/Kg	☼	76	40 - 140	8	30
bis (2-chloroisopropyl) ether	<0.70		2.12	1.21		mg/Kg	☼	57	40 - 140	5	30
Bis(2-chloroethoxy)methane	<0.70		2.12	1.46		mg/Kg	☼	69	40 - 140	2	30
Bis(2-chloroethyl)ether	<0.70		2.12	1.28		mg/Kg	☼	61	40 - 140	6	30
Bis(2-ethylhexyl) phthalate	<0.70		2.12	2.00		mg/Kg	☼	95	40 - 140	3	30
Butyl benzyl phthalate	<0.70		2.12	1.96		mg/Kg	☼	92	40 - 140	3	30
Caprolactam	<0.70		2.12	1.42		mg/Kg	☼	67	40 - 140	1	30
Carbazole	<0.70		2.12	2.14		mg/Kg	☼	101	40 - 140	1	30
Chrysene	<0.70		2.12	1.89		mg/Kg	☼	72	40 - 140	8	30
Dibenz(a,h)anthracene	<0.70		2.12	1.82		mg/Kg	☼	86	40 - 140	0	30
Dibenzofuran	<0.70		2.12	1.89		mg/Kg	☼	90	40 - 140	2	30
Diethyl phthalate	<0.70		2.12	1.98		mg/Kg	☼	93	40 - 140	0	30
Dimethyl phthalate	<0.70		2.12	1.89		mg/Kg	☼	89	40 - 140	0	30
Di-n-butyl phthalate	<0.70		2.12	1.94		mg/Kg	☼	92	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-124686-B-1-B MSD
Matrix: Solid
Analysis Batch: 598902

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate	<0.70		2.12	2.07		mg/Kg	☼	98	40 - 140	0	30
Fluoranthene	<0.70		2.12	2.10		mg/Kg	☼	74	40 - 140	3	30
Fluorene	<0.70		2.12	1.99		mg/Kg	☼	94	40 - 140	1	30
Hexachlorobenzene	<0.70		2.12	2.04		mg/Kg	☼	96	40 - 140	1	30
Hexachlorobutadiene	<0.70		2.12	1.82		mg/Kg	☼	86	40 - 140	2	30
Hexachlorocyclopentadiene	<0.70	F1	2.12	0.713	F1	mg/Kg	☼	34	40 - 140	27	30
Hexachloroethane	<0.70		2.12	1.45		mg/Kg	☼	68	40 - 140	4	30
Indeno[1,2,3-cd]pyrene	<0.70		2.12	1.96		mg/Kg	☼	78	40 - 140	2	30
Isophorone	<0.70		2.12	1.52		mg/Kg	☼	72	40 - 140	2	30
Naphthalene	<0.70		2.12	1.71		mg/Kg	☼	81	40 - 140	7	30
Nitrobenzene	<0.70		2.12	1.44		mg/Kg	☼	68	40 - 140	2	30
N-Nitrosodi-n-propylamine	<0.70		2.12	1.49		mg/Kg	☼	70	40 - 140	1	30
N-Nitrosodiphenylamine	<0.70		2.10	1.76		mg/Kg	☼	84	40 - 140	2	30
Pentachlorophenol	<1.4		4.23	3.30		mg/Kg	☼	78	40 - 140	7	30
Phenanthrene	<0.70		2.12	1.86		mg/Kg	☼	82	40 - 140	2	30
Phenol	<0.70		2.12	1.48		mg/Kg	☼	70	40 - 140	4	30
Pyrene	<0.70		2.12	2.07		mg/Kg	☼	73	40 - 140	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*126*		*10 - 150*
2-Fluorobiphenyl	*84*		*27 - 127*
2-Fluorophenol (Surr)	*75*		*25 - 128*
Nitrobenzene-d5 (Surr)	*79*		*15 - 136*
Phenol-d5 (Surr)	*75*		*29 - 130*
Terphenyl-d14 (Surr)	*91*		*24 - 146*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-598460/4
Matrix: Water
Analysis Batch: 598460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			10/31/22 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*10/31/22 09:57*	*1*

Lab Sample ID: LCS 400-598460/1002
Matrix: Water
Analysis Batch: 598460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951		ug/L		95	85 - 115

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 400-598460/1002
Matrix: Water
Analysis Batch: 598460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	108		69 - 147

Lab Sample ID: 400-227445-3 MS
Matrix: Water
Analysis Batch: 598460

Client Sample ID: S-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<100		1000	805		ug/L		80	35 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	104		69 - 147

Lab Sample ID: 400-227445-3 MSD
Matrix: Water
Analysis Batch: 598460

Client Sample ID: S-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<100		1000	835		ug/L		84	35 - 150	4	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	104		69 - 147

Lab Sample ID: MB 400-598657/2-A
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.10		0.10		mg/Kg		10/31/22 08:54	10/31/22 09:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	91		65 - 125	10/31/22 08:54	10/31/22 09:57	1

Lab Sample ID: LCS 400-598657/1-A
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1.00	0.973		mg/Kg		97	62 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	107		65 - 125

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-227446-3 MS
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: S-21
Prep Type: Total/NA
Prep Batch: 598657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<0.11		1.21	0.963		mg/Kg	☼	79	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*

Lab Sample ID: 400-227446-3 MSD
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: S-21
Prep Type: Total/NA
Prep Batch: 598657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.11		1.18	0.927		mg/Kg	☼	79	10 - 150	4	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*105*		*65 - 125*

Lab Sample ID: MB 400-599163/2-A
Matrix: Solid
Analysis Batch: 598991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.10		0.10		mg/Kg		11/03/22 08:45	11/03/22 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*11/03/22 08:45*	*11/03/22 09:55*	*1*

Lab Sample ID: LCS 400-599163/1-A
Matrix: Solid
Analysis Batch: 598991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1.00	0.928		mg/Kg		93	62 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*

Lab Sample ID: 400-227894-A-5-E MS
Matrix: Solid
Analysis Batch: 598991

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<0.11		1.10	0.974		mg/Kg	☼	89	10 - 150

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-227894-A-5-E MS
Matrix: Solid
Analysis Batch: 598991

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599163

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*107*		*65 - 125*

Lab Sample ID: 400-227894-A-5-F MSD
Matrix: Solid
Analysis Batch: 598991

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.11		1.10	0.893		mg/Kg	☼	81	10 - 150	9	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*

Lab Sample ID: MB 400-599251/2-A
Matrix: Solid
Analysis Batch: 599224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.10		0.10		mg/Kg		11/04/22 10:39	11/04/22 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*11/04/22 10:39*	*11/04/22 12:13*	*1*

Lab Sample ID: LCS 400-599251/1-A
Matrix: Solid
Analysis Batch: 599224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599251

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1.00	0.973		mg/Kg		97	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*

Lab Sample ID: 400-227892-A-1-G MS
Matrix: Solid
Analysis Batch: 599224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<6.6		65.7	68.6		mg/Kg	☼	104	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*107*		*65 - 125*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-227892-A-1-H MSD
Matrix: Solid
Analysis Batch: 599224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<6.6		65.7	69.0		mg/Kg	☼	105	10 - 150	1	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*

Lab Sample ID: MB 400-599357/40
Matrix: Water
Analysis Batch: 599357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<100		100		ug/L			11/04/22 19:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*88*		*69 - 147*		*11/04/22 19:09*	*1*

Lab Sample ID: LCS 400-599357/1002
Matrix: Water
Analysis Batch: 599357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	941		ug/L		94	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*69 - 147*

Lab Sample ID: 400-227894-A-7 MS
Matrix: Water
Analysis Batch: 599357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<100		1000	1030		ug/L		103	35 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*69 - 147*

Lab Sample ID: 400-227894-A-7 MSD
Matrix: Water
Analysis Batch: 599357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<100		1000	1000		ug/L		100	35 - 150	3	15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-227894-A-7 MSD
Matrix: Water
Analysis Batch: 599357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	106		69 - 147

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-597364/1-A
Matrix: Water
Analysis Batch: 597505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<31		31		ug/L		10/21/22 16:09	10/24/22 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	80		21 - 150	10/21/22 16:09	10/24/22 11:10	1

Lab Sample ID: LCS 400-597364/2-A
Matrix: Water
Analysis Batch: 597505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597364

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			4040	2480		ug/L		61	49 - 128		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	56		21 - 150

Lab Sample ID: LCSD 400-597364/3-A
Matrix: Water
Analysis Batch: 597505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597364

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			4040	3410		ug/L		84	49 - 128	31	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	79		21 - 150

Lab Sample ID: MB 400-597799/1-A
Matrix: Water
Analysis Batch: 597884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/25/22 14:42	10/26/22 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	68		21 - 150	10/25/22 14:42	10/26/22 12:37	1

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-597799/2-A
Matrix: Water
Analysis Batch: 597884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			16200	14500		ug/L		89	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*83*		*21 - 150*

Lab Sample ID: LCSD 400-597799/3-A
Matrix: Water
Analysis Batch: 597884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597799

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			16200	14100		ug/L		87	49 - 128	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*78*		*21 - 150*

Lab Sample ID: MB 400-598311/1-A
Matrix: Water
Analysis Batch: 598470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/28/22 14:10	10/31/22 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*21 - 150*	*10/28/22 14:10*	*10/31/22 12:38*	*1*

Lab Sample ID: LCS 400-598311/2-A
Matrix: Water
Analysis Batch: 598470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			16200	16000		ug/L		99	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*85*		*21 - 150*

Lab Sample ID: 400-227894-E-7-A MS
Matrix: Water
Analysis Batch: 598470

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598311

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	<120		14900	12600		ug/L		85	30 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*70*		*21 - 150*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 400-227894-E-7-B MSD
Matrix: Water
Analysis Batch: 598470

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598311

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<120		14900	13500		ug/L		91	30 - 150	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*77*		*21 - 150*

Lab Sample ID: MB 400-598578/1-A
Matrix: Water
Analysis Batch: 598756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		10/31/22 13:37	11/01/22 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*68*		*21 - 150*	*10/31/22 13:37*	*11/01/22 19:06*	*1*

Lab Sample ID: LCS 400-598578/2-A
Matrix: Water
Analysis Batch: 598756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598578

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			32300	28000		ug/L		87	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*21 - 150*

Lab Sample ID: LCSD 400-598578/3-A
Matrix: Water
Analysis Batch: 598756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598578

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			16200	14800	*1	ug/L		91	49 - 128	62	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*21 - 150*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 400-596884/1-A
Matrix: Solid
Analysis Batch: 597002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		10/19/22 10:15	10/20/22 08:24	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: MB 400-596884/1-A
Matrix: Solid
Analysis Batch: 597002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596884

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		27 - 150	10/19/22 10:15	10/20/22 08:24	1

Lab Sample ID: LCS 400-596884/2-A
Matrix: Solid
Analysis Batch: 597002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			270	176		mg/Kg		65	38 - 116		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	56		27 - 150

Lab Sample ID: MB 400-597592/1-A
Matrix: Solid
Analysis Batch: 597830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		10/24/22 13:51	10/25/22 20:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	68		27 - 150	10/24/22 13:51	10/25/22 20:23	1

Lab Sample ID: LCS 400-597592/2-A
Matrix: Solid
Analysis Batch: 597830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			270	221		mg/Kg		82	38 - 116		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	74		27 - 150

Lab Sample ID: 400-227544-A-1-B MS
Matrix: Solid
Analysis Batch: 597830

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 597592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	<5.3		284	270		mg/Kg	☼	95	62 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	84		27 - 150

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: 400-227544-A-1-C MSD
Matrix: Solid
Analysis Batch: 597830

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 597592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<5.3		290	251		mg/Kg	☼	87	62 - 150	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*77*		*27 - 150*

Lab Sample ID: MB 400-598081/1-A
Matrix: Solid
Analysis Batch: 598267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		10/27/22 12:22	10/28/22 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*27 - 150*	*10/27/22 12:22*	*10/28/22 12:54*	*1*

Lab Sample ID: LCS 400-598081/2-A
Matrix: Solid
Analysis Batch: 598267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598081

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			270	242		mg/Kg		90	38 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*104*		*27 - 150*

Lab Sample ID: 400-227803-A-1-A MS
Matrix: Solid
Analysis Batch: 598267

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	<5.6		307	324		mg/Kg	☼	105	62 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*122*		*27 - 150*

Lab Sample ID: 400-227803-A-1-B MSD
Matrix: Solid
Analysis Batch: 598267

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<5.6		299	258		mg/Kg	☼	86	62 - 150	23	30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: 400-227803-A-1-B MSD
Matrix: Solid
Analysis Batch: 598267

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598081

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*106*		*27 - 150*

Lab Sample ID: MB 400-598308/1-A
Matrix: Solid
Analysis Batch: 598496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		10/28/22 13:42	10/31/22 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*27 - 150*	*10/28/22 13:42*	*10/31/22 18:57*	*1*

Lab Sample ID: LCS 400-598308/2-A
Matrix: Solid
Analysis Batch: 598496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			270	226		mg/Kg		84	38 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*71*		*27 - 150*

Lab Sample ID: 400-227894-A-5-A MS
Matrix: Solid
Analysis Batch: 598496

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	<5.5		306	246		mg/Kg	☼	80	62 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*70*		*27 - 150*

Lab Sample ID: 400-227894-A-5-B MSD
Matrix: Solid
Analysis Batch: 598496

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<5.5		306	302		mg/Kg	☼	99	62 - 150	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*89*		*27 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 400-597549/1-A
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
alpha-BHC	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
beta-BHC	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
delta-BHC	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
gamma-BHC (Lindane)	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
cis-Chlordane	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
trans-Chlordane	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
4,4'-DDD	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
4,4'-DDE	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
4,4'-DDT	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Dieldrin	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endosulfan I	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endosulfan II	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endosulfan sulfate	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endrin	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endrin aldehyde	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Endrin ketone	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Heptachlor	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Heptachlor epoxide	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Methoxychlor	<0.0017		0.0017		mg/Kg		10/24/22 11:48	10/27/22 22:00	1
Toxaphene	<0.10		0.10		mg/Kg		10/24/22 11:48	10/27/22 22:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*172*	*S1+*	*26 - 129*	*10/24/22 11:48*	*10/27/22 22:00*	*1*
Tetrachloro-m-xylene	*102*		*31 - 122*	*10/24/22 11:48*	*10/27/22 22:00*	*1*

Lab Sample ID: LCS 400-597549/2-A
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0333	0.0234		mg/Kg		70	47 - 137
alpha-BHC	0.0333	0.0227		mg/Kg		68	50 - 148
beta-BHC	0.0333	0.0228		mg/Kg		69	46 - 133
delta-BHC	0.0333	0.0280		mg/Kg		84	10 - 150
gamma-BHC (Lindane)	0.0333	0.0192		mg/Kg		58	50 - 148
cis-Chlordane	0.0333	0.0281		mg/Kg		84	35 - 134
trans-Chlordane	0.0333	0.0332		mg/Kg		100	39 - 146
4,4'-DDD	0.0333	0.0314		mg/Kg		94	46 - 150
4,4'-DDE	0.0333	0.0373		mg/Kg		112	49 - 148
4,4'-DDT	0.0333	0.0292		mg/Kg		87	44 - 150
Dieldrin	0.0333	0.0317		mg/Kg		95	41 - 150
Endosulfan I	0.0333	0.0296		mg/Kg		89	50 - 141
Endosulfan II	0.0333	0.0275		mg/Kg		82	47 - 148
Endosulfan sulfate	0.0333	0.0242		mg/Kg		73	50 - 145
Endrin	0.0333	0.0378		mg/Kg		113	45 - 150
Endrin aldehyde	0.0333	0.0366		mg/Kg		110	10 - 150
Endrin ketone	0.0333	0.0349	E	mg/Kg		105	48 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 400-597549/2-A
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Heptachlor			0.0333	0.0231		mg/Kg		69	46 - 150		
Heptachlor epoxide			0.0333	0.0301		mg/Kg		90	49 - 148		
Methoxychlor			0.0333	0.0269		mg/Kg		81	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*154*	*S1+*	*26 - 129*
Tetrachloro-m-xylene	*81*		*31 - 122*

Lab Sample ID: 400-227427-A-25-D MS
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 597549

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin	<0.0018		0.0386	0.0254		mg/Kg	☼	66	10 - 154		
alpha-BHC	<0.0018		0.0386	0.0245		mg/Kg	☼	63	15 - 152		
beta-BHC	<0.0018		0.0386	0.0212		mg/Kg	☼	55	10 - 160		
delta-BHC	<0.0018		0.0386	0.0250		mg/Kg	☼	65	10 - 160		
gamma-BHC (Lindane)	<0.0018		0.0386	0.0160		mg/Kg	☼	42	26 - 142		
cis-Chlordane	<0.0018		0.0386	0.0301		mg/Kg	☼	78	10 - 160		
trans-Chlordane	<0.0018		0.0386	0.0337		mg/Kg	☼	87	10 - 160		
4,4'-DDD	0.0030		0.0386	0.0297		mg/Kg	☼	69	13 - 146		
4,4'-DDE	0.011		0.0386	0.0480		mg/Kg	☼	95	23 - 143		
4,4'-DDT	0.058	F1	0.0386	0.0149	F1	mg/Kg	☼	-111	10 - 160		
Dieldrin	<0.0018		0.0386	0.0354		mg/Kg	☼	92	10 - 160		
Endosulfan I	<0.0018		0.0386	0.0324		mg/Kg	☼	84	10 - 160		
Endosulfan II	<0.0018		0.0386	0.0271		mg/Kg	☼	70	10 - 160		
Endosulfan sulfate	<0.0018		0.0386	0.0237		mg/Kg	☼	61	27 - 143		
Endrin	<0.0018		0.0386	0.0355		mg/Kg	☼	92	20 - 156		
Endrin aldehyde	<0.0018		0.0386	0.0375		mg/Kg	☼	97	14 - 160		
Endrin ketone	<0.0018		0.0386	0.0199		mg/Kg	☼	51	31 - 155		
Heptachlor	<0.0018		0.0386	0.0164		mg/Kg	☼	43	10 - 160		
Heptachlor epoxide	<0.0018		0.0386	0.0312		mg/Kg	☼	81	10 - 160		
Methoxychlor	<0.0018		0.0386	0.0143		mg/Kg	☼	37	10 - 160		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*26 - 129*
Tetrachloro-m-xylene	*61*		*31 - 122*

Lab Sample ID: 400-227427-A-25-E MSD
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 597549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	<0.0018		0.0384	0.0247		mg/Kg	☼	64	10 - 154	2	50
alpha-BHC	<0.0018		0.0384	0.0250		mg/Kg	☼	65	15 - 152	2	50
beta-BHC	<0.0018		0.0384	0.0231		mg/Kg	☼	60	10 - 160	8	50
delta-BHC	<0.0018		0.0384	0.0273		mg/Kg	☼	71	10 - 160	9	50
gamma-BHC (Lindane)	<0.0018		0.0384	0.0213		mg/Kg	☼	56	26 - 142	28	50

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 400-227427-A-25-E MSD
Matrix: Solid
Analysis Batch: 598093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 597549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-Chlordane	<0.0018		0.0384	0.0307		mg/Kg	☼	80	10 - 160	2	50
trans-Chlordane	<0.0018		0.0384	0.0336		mg/Kg	☼	88	10 - 160	0	50
4,4'-DDD	0.0030		0.0384	0.0371		mg/Kg	☼	89	13 - 146	22	50
4,4'-DDE	0.011		0.0384	0.0457		mg/Kg	☼	90	23 - 143	5	50
4,4'-DDT	0.058	F1	0.0384	0.0173	F1	mg/Kg	☼	-106	10 - 160	15	50
Dieldrin	<0.0018		0.0384	0.0368		mg/Kg	☼	96	10 - 160	4	50
Endosulfan I	<0.0018		0.0384	0.0335		mg/Kg	☼	87	10 - 160	3	50
Endosulfan II	<0.0018		0.0384	0.0320		mg/Kg	☼	83	10 - 160	17	50
Endosulfan sulfate	<0.0018		0.0384	0.0302		mg/Kg	☼	79	27 - 143	24	50
Endrin	<0.0018		0.0384	0.0444		mg/Kg	☼	116	20 - 156	22	50
Endrin aldehyde	<0.0018		0.0384	0.0448		mg/Kg	☼	117	14 - 160	18	50
Endrin ketone	<0.0018		0.0384	0.0265		mg/Kg	☼	69	31 - 155	29	50
Heptachlor	<0.0018		0.0384	0.0207		mg/Kg	☼	54	10 - 160	23	50
Heptachlor epoxide	<0.0018		0.0384	0.0300		mg/Kg	☼	78	10 - 160	4	50
Methoxychlor	<0.0018		0.0384	0.0178		mg/Kg	☼	46	10 - 160	22	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*122*		*26 - 129*
Tetrachloro-m-xylene	*55*		*31 - 122*

Lab Sample ID: MB 400-597695/1-A
Matrix: Water
Analysis Batch: 597994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
alpha-BHC	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
beta-BHC	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
delta-BHC	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
gamma-BHC (Lindane)	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
cis-Chlordane	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
trans-Chlordane	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
4,4'-DDD	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
4,4'-DDE	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
4,4'-DDT	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Dieldrin	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endosulfan I	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endosulfan II	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endosulfan sulfate	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endrin	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endrin aldehyde	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Endrin ketone	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Heptachlor	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Heptachlor epoxide	<0.020		0.020		ug/L		10/25/22 08:49	10/26/22 21:50	1
Methoxychlor	<0.050		0.050		ug/L		10/25/22 08:49	10/26/22 21:50	1
Toxaphene	<1.2		1.2		ug/L		10/25/22 08:49	10/26/22 21:50	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 400-597695/1-A
Matrix: Water
Analysis Batch: 597994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597695

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		40 - 130	10/25/22 08:49	10/26/22 21:50	1
Tetrachloro-m-xylene	61		40 - 130	10/25/22 08:49	10/26/22 21:50	1

Lab Sample ID: LCS 400-597695/2-A
Matrix: Water
Analysis Batch: 597994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.500	0.300		ug/L		60	50 - 150		
alpha-BHC			0.500	0.381		ug/L		76	50 - 150		
beta-BHC			0.500	0.365		ug/L		73	50 - 150		
delta-BHC			0.500	0.379		ug/L		76	50 - 150		
gamma-BHC (Lindane)			0.500	0.370		ug/L		74	50 - 150		
cis-Chlordane			0.500	0.351		ug/L		70	50 - 150		
trans-Chlordane			0.500	0.377		ug/L		75	50 - 150		
4,4'-DDD			0.500	0.487		ug/L		97	50 - 150		
4,4'-DDE			0.500	0.334		ug/L		67	50 - 150		
4,4'-DDT			0.500	0.368		ug/L		74	50 - 150		
Dieldrin			0.500	0.390		ug/L		78	50 - 150		
Endosulfan I			0.500	0.398		ug/L		80	50 - 150		
Endosulfan II			0.500	0.388		ug/L		78	50 - 150		
Endosulfan sulfate			0.500	0.378		ug/L		76	50 - 150		
Endrin			0.500	0.508		ug/L		102	50 - 150		
Endrin aldehyde			0.500	0.486		ug/L		97	50 - 150		
Endrin ketone			0.500	0.425		ug/L		85	50 - 150		
Heptachlor			0.500	0.419		ug/L		84	50 - 150		
Heptachlor epoxide			0.500	0.390		ug/L		78	50 - 150		
Methoxychlor			0.500	0.383		ug/L		77	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		40 - 130
Tetrachloro-m-xylene	59		40 - 130

Lab Sample ID: LCSD 400-597695/3-A
Matrix: Water
Analysis Batch: 597994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.500	0.315		ug/L		63	50 - 150	5	40
alpha-BHC			0.500	0.390		ug/L		78	50 - 150	2	40
beta-BHC			0.500	0.362		ug/L		72	50 - 150	1	40
delta-BHC			0.500	0.389		ug/L		78	50 - 150	3	40
gamma-BHC (Lindane)			0.500	0.368		ug/L		74	50 - 150	0	40
cis-Chlordane			0.500	0.350		ug/L		70	50 - 150	0	40
trans-Chlordane			0.500	0.388		ug/L		78	50 - 150	3	40
4,4'-DDD			0.500	0.538		ug/L		108	50 - 150	10	40
4,4'-DDE			0.500	0.339		ug/L		68	50 - 150	2	40
4,4'-DDT			0.500	0.366		ug/L		73	50 - 150	1	40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 400-597695/3-A
Matrix: Water
Analysis Batch: 597994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin			0.500	0.386		ug/L		77	50 - 150	1	40
Endosulfan I			0.500	0.398		ug/L		80	50 - 150	0	40
Endosulfan II			0.500	0.381		ug/L		76	50 - 150	2	40
Endosulfan sulfate			0.500	0.366		ug/L		73	50 - 150	3	40
Endrin			0.500	0.473		ug/L		95	50 - 150	7	40
Endrin aldehyde			0.500	0.525		ug/L		105	50 - 150	8	40
Endrin ketone			0.500	0.401		ug/L		80	50 - 150	6	40
Heptachlor			0.500	0.404		ug/L		81	50 - 150	3	40
Heptachlor epoxide			0.500	0.394		ug/L		79	50 - 150	1	40
Methoxychlor			0.500	0.359		ug/L		72	50 - 150	6	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*40 - 130*
Tetrachloro-m-xylene	*74*		*40 - 130*

Lab Sample ID: MB 400-598524/1-A
Matrix: Solid
Analysis Batch: 598975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
alpha-BHC	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
beta-BHC	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
delta-BHC	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
gamma-BHC (Lindane)	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
cis-Chlordane	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
trans-Chlordane	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
4,4'-DDD	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
4,4'-DDE	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
4,4'-DDT	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Dieldrin	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endosulfan I	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endosulfan II	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endosulfan sulfate	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endrin	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endrin aldehyde	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Endrin ketone	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Heptachlor	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Heptachlor epoxide	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Methoxychlor	<0.0017		0.0017		mg/Kg		10/31/22 11:18	11/02/22 23:18	1
Toxaphene	<0.10		0.10		mg/Kg		10/31/22 11:18	11/02/22 23:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*26 - 129*	*10/31/22 11:18*	*11/02/22 23:18*	*1*
Tetrachloro-m-xylene	*59*		*31 - 122*	*10/31/22 11:18*	*11/02/22 23:18*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 400-598524/2-A
Matrix: Solid
Analysis Batch: 598975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0333	0.0233		mg/Kg		70	47 - 137
alpha-BHC	0.0333	0.0252		mg/Kg		75	50 - 148
beta-BHC	0.0333	0.0253		mg/Kg		76	46 - 133
delta-BHC	0.0333	0.0264		mg/Kg		79	10 - 150
gamma-BHC (Lindane)	0.0333	0.0294		mg/Kg		88	50 - 148
cis-Chlordane	0.0333	0.0248		mg/Kg		74	35 - 134
trans-Chlordane	0.0333	0.0269		mg/Kg		81	39 - 146
4,4'-DDD	0.0333	0.0309		mg/Kg		93	46 - 150
4,4'-DDE	0.0333	0.0230		mg/Kg		69	49 - 148
4,4'-DDT	0.0333	0.0305		mg/Kg		91	44 - 150
Dieldrin	0.0333	0.0267		mg/Kg		80	41 - 150
Endosulfan I	0.0333	0.0259		mg/Kg		78	50 - 141
Endosulfan II	0.0333	0.0252		mg/Kg		76	47 - 148
Endosulfan sulfate	0.0333	0.0275		mg/Kg		82	50 - 145
Endrin	0.0333	0.0268		mg/Kg		80	45 - 150
Endrin aldehyde	0.0333	0.0269		mg/Kg		81	10 - 150
Endrin ketone	0.0333	0.0262		mg/Kg		79	48 - 150
Heptachlor	0.0333	0.0263		mg/Kg		79	46 - 150
Heptachlor epoxide	0.0333	0.0247		mg/Kg		74	49 - 148
Methoxychlor	0.0333	0.0258		mg/Kg		77	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*64*		*26 - 129*
Tetrachloro-m-xylene	*54*		*31 - 122*

Lab Sample ID: 320-93560-B-1-A MS
Matrix: Solid
Analysis Batch: 598975

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.040		0.0335	0.0688		mg/Kg	☼	86	10 - 154
alpha-BHC	<0.0087		0.0335	0.0233		mg/Kg	☼	70	15 - 152
beta-BHC	<0.0087		0.0335	0.0219		mg/Kg	☼	65	10 - 160
delta-BHC	<0.0087		0.0335	0.0207		mg/Kg	☼	62	10 - 160
gamma-BHC (Lindane)	<0.0087		0.0335	0.0251		mg/Kg	☼	75	26 - 142
cis-Chlordane	0.0089		0.0335	0.0305		mg/Kg	☼	65	10 - 160
trans-Chlordane	<0.0087		0.0335	0.0323		mg/Kg	☼	74	10 - 160
4,4'-DDD	<0.0087		0.0335	0.0270		mg/Kg	☼	73	13 - 146
4,4'-DDE	0.028		0.0335	0.0508		mg/Kg	☼	68	23 - 143
4,4'-DDT	0.0088		0.0335	0.0317		mg/Kg	☼	68	10 - 160
Dieldrin	0.15		0.0335	0.212	4	mg/Kg	☼	173	10 - 160
Endosulfan I	<0.0087		0.0335	0.0225		mg/Kg	☼	67	10 - 160
Endosulfan II	<0.0087		0.0335	0.0233		mg/Kg	☼	70	10 - 160
Endosulfan sulfate	<0.0087		0.0335	0.0225		mg/Kg	☼	67	27 - 143
Endrin	<0.0087		0.0335	0.0246		mg/Kg	☼	74	20 - 156
Endrin aldehyde	<0.0087		0.0335	0.0210		mg/Kg	☼	63	14 - 160
Endrin ketone	<0.0087		0.0335	0.0228		mg/Kg	☼	68	31 - 155
Heptachlor	<0.0087		0.0335	0.0238		mg/Kg	☼	71	10 - 160

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-93560-B-1-A MS
Matrix: Solid
Analysis Batch: 598975

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide	<0.0087		0.0335	0.0246		mg/Kg	☼	73	10 - 160
Methoxychlor	<0.0087		0.0335	0.0230		mg/Kg	☼	69	10 - 160

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*26 - 129*
Tetrachloro-m-xylene	*67*		*31 - 122*

Lab Sample ID: 320-93560-B-1-B MSD
Matrix: Solid
Analysis Batch: 598975

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.040		0.0338	0.0741		mg/Kg	☼	101	10 - 154	7	50
alpha-BHC	<0.0087		0.0338	0.0296		mg/Kg	☼	88	15 - 152	24	50
beta-BHC	<0.0087		0.0338	0.0271		mg/Kg	☼	80	10 - 160	21	50
delta-BHC	<0.0087		0.0338	0.0278		mg/Kg	☼	82	10 - 160	29	50
gamma-BHC (Lindane)	<0.0087		0.0338	0.0296		mg/Kg	☼	88	26 - 142	17	50
cis-Chlordane	0.0089		0.0338	0.0372		mg/Kg	☼	84	10 - 160	20	50
trans-Chlordane	<0.0087		0.0338	0.0406		mg/Kg	☼	98	10 - 160	23	50
4,4'-DDD	<0.0087		0.0338	0.0321		mg/Kg	☼	87	13 - 146	17	50
4,4'-DDE	0.028		0.0338	0.0620		mg/Kg	☼	100	23 - 143	20	50
4,4'-DDT	0.0088		0.0338	0.0339		mg/Kg	☼	74	10 - 160	7	50
Dieldrin	0.15		0.0338	0.201	4	mg/Kg	☼	137	10 - 160	6	50
Endosulfan I	<0.0087		0.0338	0.0290		mg/Kg	☼	86	10 - 160	25	50
Endosulfan II	<0.0087		0.0338	0.0266		mg/Kg	☼	79	10 - 160	13	50
Endosulfan sulfate	<0.0087		0.0338	0.0258		mg/Kg	☼	76	27 - 143	13	50
Endrin	<0.0087		0.0338	0.0320		mg/Kg	☼	95	20 - 156	26	50
Endrin aldehyde	<0.0087		0.0338	0.0268		mg/Kg	☼	79	14 - 160	24	50
Endrin ketone	<0.0087		0.0338	0.0241		mg/Kg	☼	71	31 - 155	5	50
Heptachlor	<0.0087		0.0338	0.0271		mg/Kg	☼	80	10 - 160	13	50
Heptachlor epoxide	<0.0087		0.0338	0.0313		mg/Kg	☼	93	10 - 160	24	50
Methoxychlor	<0.0087		0.0338	0.0238		mg/Kg	☼	70	10 - 160	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*26 - 129*
Tetrachloro-m-xylene	*77*		*31 - 122*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 400-598572/1-A
Matrix: Solid
Analysis Batch: 599164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.20		0.20		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
2,4-DB	<0.015		0.015		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
2,4,5-T	<0.040		0.040		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
Silvex (2,4,5-TP)	<0.040		0.040		mg/Kg		10/31/22 13:28	11/04/22 00:57	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 400-598572/1-A
Matrix: Solid
Analysis Batch: 599164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	<0.020		0.020		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
Dicamba	<0.060		0.060		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
Dichlorprop	<0.13		0.13		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
Dinoseb	<0.20		0.20		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
MCPA	<50		50		mg/Kg		10/31/22 13:28	11/04/22 00:57	1
MCPP	<50		50		mg/Kg		10/31/22 13:28	11/04/22 00:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*50*		*10 - 150*	*10/31/22 13:28*	*11/04/22 00:57*	*1*

Lab Sample ID: LCS 400-598572/2-A
Matrix: Solid
Analysis Batch: 599164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-DB	0.167	0.0761		mg/Kg		46	16 - 120
2,4,5-T	0.168	0.0934		mg/Kg		56	40 - 120
Silvex (2,4,5-TP)	0.168	0.0784		mg/Kg		47	34 - 120
Dalapon	0.167	0.120		mg/Kg		72	10 - 120
Dicamba	0.165	0.0797		mg/Kg		48	10 - 141
Dichlorprop	0.166	0.0734	J	mg/Kg		44	28 - 120
Dinoseb	0.167	0.0490	J	mg/Kg		29	10 - 120
MCPA	16.5	9.44	J	mg/Kg		57	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*48*		*10 - 150*

Lab Sample ID: 400-227875-B-1-I MS
Matrix: Solid
Analysis Batch: 599164

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-DB	<0.070		0.165	<0.074		mg/Kg		33	10 - 88
2,4,5-T	<0.19		0.166	<0.20		mg/Kg		79	10 - 107
Silvex (2,4,5-TP)	<0.19		0.167	<0.20		mg/Kg		54	10 - 111
Dalapon	<0.094	F1	0.165	0.227	F1	mg/Kg		137	10 - 126
Dicamba	<0.28		0.163	<0.30		mg/Kg		54	10 - 150
Dichlorprop	<0.61	F1	0.164	<0.64		mg/Kg		72	10 - 81
Dinoseb	<0.94		0.166	<0.99		mg/Kg		31	10 - 64
MCPA	<230		16.3	<250		mg/Kg		52	10 - 101

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*56*		*10 - 150*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 400-227875-B-1-J MSD
Matrix: Solid
Analysis Batch: 599164

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-DB	<0.070		0.161	0.123		mg/Kg		77	10 - 88	78	109
2,4,5-T	<0.19		0.161	<0.19		mg/Kg		99	10 - 107	20	121
Silvex (2,4,5-TP)	<0.19		0.162	<0.19		mg/Kg		75	10 - 111	29	102
Dalapon	<0.094	F1	0.161	0.238	F1	mg/Kg		148	10 - 126	5	76
Dicamba	<0.28		0.159	<0.29		mg/Kg		72	10 - 150	26	159
Dichlorprop	<0.61	F1	0.160	<0.63	F1	mg/Kg		93	10 - 81	22	96
Dinoseb	<0.94		0.161	<0.96		mg/Kg		43	10 - 64	30	99
MCPA	<230		15.9	<240		mg/Kg		51	10 - 101	4	134

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*74*		*10 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-599922/1-A
Matrix: Solid
Analysis Batch: 600209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Barium	<1.0		1.0		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Cadmium	<0.50		0.50		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Chromium	<1.0		1.0		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Lead	<1.0		1.0		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Selenium	<2.0		2.0		mg/Kg		11/09/22 16:16	11/10/22 12:18	1
Silver	<0.50		0.50		mg/Kg		11/09/22 16:16	11/10/22 12:18	1

Lab Sample ID: LCS 400-599922/2-A
Matrix: Solid
Analysis Batch: 600209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	99.0	87.2		mg/Kg		88	80 - 120
Barium	99.0	92.5		mg/Kg		93	80 - 120
Cadmium	49.5	44.4		mg/Kg		90	80 - 120
Chromium	99.0	91.2		mg/Kg		92	80 - 120
Lead	99.0	87.7		mg/Kg		89	80 - 120
Selenium	99.0	82.0		mg/Kg		83	80 - 120
Silver	49.5	43.5		mg/Kg		88	80 - 120

Lab Sample ID: 400-228377-F-1-B MS
Matrix: Solid
Analysis Batch: 600209

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	9.4		112	101		mg/Kg	☼	82	75 - 125
Barium	93		112	185		mg/Kg	☼	82	75 - 125
Cadmium	<0.57		56.2	48.0		mg/Kg	☼	85	75 - 125
Chromium	18		112	109		mg/Kg	☼	81	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-228377-F-1-B MS
Matrix: Solid
Analysis Batch: 600209

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	14		112	107		mg/Kg	☼	83	75 - 125
Selenium	<2.3		112	86.1		mg/Kg	☼	77	75 - 125
Silver	<0.57		56.2	49.6		mg/Kg	☼	88	75 - 125

Lab Sample ID: 400-228377-F-1-C MSD
Matrix: Solid
Analysis Batch: 600209

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	9.4		118	102		mg/Kg	☼	79	75 - 125	1	20
Barium	93		118	188		mg/Kg	☼	81	75 - 125	2	20
Cadmium	<0.57		58.9	50.1		mg/Kg	☼	85	75 - 125	4	20
Chromium	18		118	117		mg/Kg	☼	84	75 - 125	7	20
Lead	14		118	113		mg/Kg	☼	84	75 - 125	5	20
Selenium	<2.3		118	90.6		mg/Kg	☼	77	75 - 125	5	20
Silver	<0.57		58.9	50.6		mg/Kg	☼	86	75 - 125	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-599543/14-A
Matrix: Solid
Analysis Batch: 599890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		11/08/22 11:38	11/08/22 13:02	1

Lab Sample ID: LCS 400-599543/15-A
Matrix: Solid
Analysis Batch: 599890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0671	0.0571		mg/Kg		85	80 - 120

Lab Sample ID: 680-223863-A-1-I MS
Matrix: Solid
Analysis Batch: 599890

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.098	F1	0.211	0.242	F1	mg/Kg	☼	68	80 - 120

Lab Sample ID: 680-223863-A-1-J MSD
Matrix: Solid
Analysis Batch: 599890

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.098	F1	0.212	0.267	F1	mg/Kg	☼	79	80 - 120	10	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 400-599611/14-A
Matrix: Solid
Analysis Batch: 599890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		11/08/22 10:00	11/09/22 09:27	1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 400-600659/1-A
Matrix: Solid
Analysis Batch: 600686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<4.8		4.8		mg/Kg		11/14/22 18:41	11/15/22 00:01	1

Lab Sample ID: LCS 400-600659/2-A
Matrix: Solid
Analysis Batch: 600686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (hexavalent)	29.4	29.0		mg/Kg		99	80 - 120

Lab Sample ID: MRL 400-600686/5
Matrix: Solid
Analysis Batch: 600686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (hexavalent)	0.00500	0.00392	J	mg/L		78	50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 400-227628-9 DU
Matrix: Solid
Analysis Batch: 597691

Client Sample ID: S-29
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.0		14.0		%		0.2	

Lab Sample ID: 400-227833-B-1 DU
Matrix: Solid
Analysis Batch: 598189

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.5		8.8		%		3	

Lab Sample ID: 400-227892-A-1 DU
Matrix: Solid
Analysis Batch: 598479

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.6		15.7		%		0.8	

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 400-228018-A-1 DU
Matrix: Solid
Analysis Batch: 598479

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.8			13.3		%				24	

Lab Sample ID: 400-227969-A-11 DU
Matrix: Solid
Analysis Batch: 598682

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	51.6			51.9		%				0.5	

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-19
Date Collected: 10/17/22 15:10
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			252.4 mL	1 mL	597364	10/21/22 16:09	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597505	10/24/22 13:52	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-20
Date Collected: 10/17/22 14:15
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			228.6 mL	1 mL	597364	10/21/22 16:09	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597505	10/24/22 14:08	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-21
Date Collected: 10/17/22 12:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 11:41	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			245 mL	1 mL	597364	10/21/22 16:09	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597505	10/24/22 14:25	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-24
Date Collected: 10/17/22 10:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			240.8 mL	1 mL	597364	10/21/22 16:09	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597505	10/24/22 14:41	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-25
Date Collected: 10/17/22 11:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227445-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			242.2 mL	1 mL	597364	10/21/22 16:09	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597505	10/24/22 14:57	RS	EET PEN
	Instrument ID: Eva									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-19
Date Collected: 10/17/22 14:40
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597041	10/20/22 09:51	SR	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-19
Date Collected: 10/17/22 14:40
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-1
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.59 g	1 mL	596884	10/19/22 10:15	LH	EET PEN
Total/NA	Analysis	8015C		50	1 mL	1 mL	597553	10/24/22 13:32	RS	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-20
Date Collected: 10/17/22 13:45
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597041	10/20/22 09:51	SR	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-20
Date Collected: 10/17/22 13:45
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-2
Matrix: Solid
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.58 g	1 mL	596884	10/19/22 10:15	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597002	10/20/22 12:02	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-21
Date Collected: 10/17/22 12:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597041	10/20/22 09:51	SR	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-21
Date Collected: 10/17/22 12:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-3
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.30 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 11:10	SAB	EET PEN
	Instrument ID: CH_JOAN									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-21
Date Collected: 10/17/22 12:00
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-3
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.58 g	1 mL	596884	10/19/22 10:15	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597002	10/20/22 12:18	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-24
Date Collected: 10/17/22 09:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597041	10/20/22 09:51	SR	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-24
Date Collected: 10/17/22 09:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-4
Matrix: Solid
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.63 g	1 mL	596884	10/19/22 10:15	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597002	10/20/22 12:35	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-25
Date Collected: 10/17/22 10:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597041	10/20/22 09:51	SR	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-25
Date Collected: 10/17/22 10:30
Date Received: 10/18/22 09:24

Lab Sample ID: 400-227446-5
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	1 mL	596884	10/19/22 10:15	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597002	10/20/22 13:07	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-1
Date Collected: 10/18/22 10:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	597840	10/26/22 11:00	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 16:50	SAB	EET PEN
	Instrument ID: CH_JOAN									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-1
Date Collected: 10/18/22 10:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			255.2 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 15:02	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-2
Date Collected: 10/18/22 09:30
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 17:21	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			243.6 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 15:19	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-3
Date Collected: 10/18/22 12:50
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			256 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 15:35	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-4
Date Collected: 10/18/22 11:30
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 17:52	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			231.6 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 15:51	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-5
Date Collected: 10/18/22 10:40
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 18:23	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			251.4 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 16:08	RS	EET PEN
	Instrument ID: Eva									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-6
Date Collected: 10/18/22 12:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	597840	10/26/22 11:24	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 18:54	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			260.2 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 16:24	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-22
Date Collected: 10/18/22 16:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	598460	10/31/22 19:26	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			222.8 mL	1 mL	597799	10/25/22 14:42	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597884	10/26/22 17:08	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-28
Date Collected: 10/18/22 15:10
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	597695	10/25/22 08:49	JTC	EET PEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	599044	11/03/22 22:24	DS	EET PEN
	Instrument ID: Jayden									

Client Sample ID: S-29
Date Collected: 10/18/22 14:00
Date Received: 10/21/22 09:56

Lab Sample ID: 400-227627-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.5 mL	2 mL	597695	10/25/22 08:49	JTC	EET PEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	599044	11/03/22 22:52	DS	EET PEN
	Instrument ID: Jayden									

Client Sample ID: S-1
Date Collected: 10/18/22 10:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-1
Date Collected: 10/18/22 10:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-1
Matrix: Solid
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 g	597932	10/26/22 08:52	BPO	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	597859	10/26/22 11:59	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.04 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 19:57	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.05 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/25/22 23:57	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-2
Date Collected: 10/18/22 09:10
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-2
Date Collected: 10/18/22 09:10
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-2
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.40 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 20:28	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.60 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 00:14	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-3
Date Collected: 10/18/22 12:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-3
Date Collected: 10/18/22 12:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-3
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 00:30	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-4
Date Collected: 10/18/22 11:15
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-4
Date Collected: 10/18/22 11:15
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-4
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.29 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 20:59	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.48 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 00:46	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-5
Date Collected: 10/18/22 10:35
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-5
Date Collected: 10/18/22 10:35
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-5
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.30 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		50	5 mL	5 mL	598661	10/31/22 21:31	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.02 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 01:03	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-6
Date Collected: 10/18/22 12:00
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-6

Lab Sample ID: 400-227628-6

Date Collected: 10/18/22 12:00

Matrix: Solid

Date Received: 10/20/22 09:56

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.90 g	5.00 g	597932	10/26/22 08:52	BPO	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	597859	10/26/22 12:24	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.09 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 22:33	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.58 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 01:19	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-22

Lab Sample ID: 400-227628-7

Date Collected: 10/18/22 16:10

Matrix: Solid

Date Received: 10/20/22 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-22

Lab Sample ID: 400-227628-7

Date Collected: 10/18/22 16:10

Matrix: Solid

Date Received: 10/20/22 09:56

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.32 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598661	10/31/22 23:04	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.41 g	1 mL	597592	10/24/22 13:51	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	597830	10/26/22 01:35	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-28

Lab Sample ID: 400-227628-8

Date Collected: 10/18/22 15:00

Matrix: Solid

Date Received: 10/20/22 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 08:32	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-28

Lab Sample ID: 400-227628-8

Date Collected: 10/18/22 15:00

Matrix: Solid

Date Received: 10/20/22 09:56

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	5 mL	597549	10/24/22 11:49	LH	EET PEN
Total/NA	Analysis	8081B		1			598093	10/28/22 01:05	DS	EET PEN
	Instrument ID: Ganda									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-29
Date Collected: 10/18/22 13:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			597691	10/25/22 09:30	MP	EET PEN
	Instrument ID: MA-A									

Client Sample ID: S-29
Date Collected: 10/18/22 13:40
Date Received: 10/20/22 09:56

Lab Sample ID: 400-227628-9
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.64 g	5 mL	597549	10/24/22 11:49	LH	EET PEN
Total/NA	Analysis	8081B		1			598093	10/28/22 01:31	DS	EET PEN
	Instrument ID: Ganda									

Client Sample ID: S-23
Date Collected: 10/24/22 09:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			265.8 mL	1 mL	598311	10/28/22 14:10	BKL	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598778	11/01/22 23:31	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-9
Date Collected: 10/24/22 10:45
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	599357	11/05/22 06:35	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			247 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 20:12	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-11
Date Collected: 10/24/22 11:45
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	599357	11/04/22 21:45	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			243 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 20:29	RS	EET PEN
	Instrument ID: Eva									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-12
Date Collected: 10/24/22 12:50
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			235.2 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 20:45	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-13
Date Collected: 10/24/22 15:50
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227841-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			251.6 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 21:02	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-23
Date Collected: 10/24/22 09:10
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-23
Date Collected: 10/24/22 09:10
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-1
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.19 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 17:29	JAW	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-9
Date Collected: 10/24/22 10:15
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-9
Date Collected: 10/24/22 10:15
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-2
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.40 g	5.00 g	599251	11/04/22 10:39	SAB	EET PEN
Total/NA	Analysis	8015C		50	5 mL	5 mL	599224	11/04/22 17:35	SAB	EET PEN
	Instrument ID: CH_JOAN									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-9
Date Collected: 10/24/22 10:15
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-2
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.24 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 17:47	JAW	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-11
Date Collected: 10/24/22 11:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-11
Date Collected: 10/24/22 11:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-3
Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.16 g	5.00 g	599163	11/03/22 08:45	PD	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598991	11/03/22 16:29	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.94 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 18:04	JAW	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-12
Date Collected: 10/24/22 12:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-12
Date Collected: 10/24/22 12:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-4
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.94 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 18:22	JAW	EET PEN
	Instrument ID: WALLE									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-10
Date Collected: 10/24/22 13:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-10
Date Collected: 10/24/22 13:30
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-5
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.69 g	5.00 g	598378	10/29/22 08:39	BEP	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	598359	10/29/22 18:12	BEP	EET PEN
	Instrument ID: Brutus									
Total/NA	Prep	5035			5.08 g	5.00 g	599251	11/04/22 10:39	SAB	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	599224	11/04/22 17:04	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.64 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 18:39	JAW	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-13
Date Collected: 10/24/22 15:20
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-13
Date Collected: 10/24/22 15:20
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227842-6
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	1 mL	598081	10/27/22 12:23	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598267	10/28/22 18:57	JAW	EET PEN
	Instrument ID: WALLE									

Client Sample ID: S-18
Date Collected: 10/25/22 09:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 15:58	TMP	EET PEN
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-18
Date Collected: 10/25/22 09:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-1
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.60 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	598417	10/30/22 18:20	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	5035			5.13 g	5.00 g	599574	11/07/22 11:10	BPO	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	599489	11/07/22 16:42	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	3546			15.41 g	1 mL	598258	10/28/22 11:11	LH	EET PEN
Total/NA	Analysis	8270D		1	0.4 mL	0.4 mL	598571	10/31/22 16:32	S1B	EET PEN
	Instrument ID: Woodstock									

Client Sample ID: S-17
Date Collected: 10/25/22 11:15
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 15:58	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-17
Date Collected: 10/25/22 11:15
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-2
Matrix: Solid
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.16 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260B		50	5 mL	5 mL	598417	10/30/22 19:10	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3546			15.44 g	1 mL	598258	10/28/22 11:11	LH	EET PEN
Total/NA	Analysis	8270D		1	0.4 mL	0.4 mL	598571	10/31/22 16:58	S1B	EET PEN
	Instrument ID: Woodstock									

Client Sample ID: S-8
Date Collected: 10/25/22 12:40
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598682	11/01/22 09:54	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-8
Date Collected: 10/25/22 12:40
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-3
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	598417	10/30/22 18:45	BEP	EET PEN
	Instrument ID: Argo									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-7
Date Collected: 10/25/22 13:55
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 15:58	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-7
Date Collected: 10/25/22 13:55
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-4
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.62 g	1 mL	598308	10/28/22 13:42	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598496	10/31/22 21:28	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-14
Date Collected: 10/25/22 15:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 15:58	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-14
Date Collected: 10/25/22 15:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227957-5
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.21 g	5.00 g	599163	11/03/22 08:45	PD	EET PEN
Total/NA	Analysis	8015C		1	5 mL	5 mL	598991	11/03/22 20:08	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.86 g	1 mL	598308	10/28/22 13:42	LH	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598496	10/31/22 20:54	RS	EET PEN
	Instrument ID: Eva									
Total/NA	Prep	3546			15.27 g	5 mL	598524	10/31/22 11:18	LH	EET PEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	598975	11/03/22 03:02	DS	EET PEN
	Instrument ID: Lebron									

Client Sample ID: S-10
Date Collected: 10/24/22 13:45
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	599365	11/05/22 13:37	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	599357	11/04/22 18:37	SAB	EET PEN
	Instrument ID: CH_JOAN									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-10
Date Collected: 10/24/22 13:45
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			51.2 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 21:51	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-10
Date Collected: 10/25/22 16:30
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	599365	11/05/22 14:02	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	599357	11/05/22 06:03	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3510C			92.8 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 22:24	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-18
Date Collected: 10/25/22 10:20
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	5 mL	5 mL	599365	11/05/22 17:48	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Prep	3510C			177.6 mL	1 mL	598664	11/01/22 08:36	STC	EET PEN
Total/NA	Analysis	8270D		1	0.4 mL	0.4 mL	598905	11/02/22 19:50	S1B	EET PEN
	Instrument ID: Marianne									

Client Sample ID: S-17
Date Collected: 10/25/22 11:35
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2000	5 mL	5 mL	599365	11/05/22 18:15	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Prep	3510C			227.2 mL	1 mL	598664	11/01/22 08:36	STC	EET PEN
Total/NA	Analysis	8270D		1	0.4 mL	0.4 mL	598905	11/02/22 20:11	S1B	EET PEN
	Instrument ID: Marianne									

Client Sample ID: S-8
Date Collected: 10/25/22 13:00
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	599365	11/05/22 14:26	WPD	EET PEN
	Instrument ID: CH_CONAN									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-7
Date Collected: 10/25/22 14:10
Date Received: 10/27/22 09:24

Lab Sample ID: 400-227959-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			224.2 mL	1 mL	598578	10/31/22 13:37	STC	EET PEN
Total/NA	Analysis	8015C		1	1 mL	1 mL	598756	11/01/22 22:41	RS	EET PEN
	Instrument ID: Eva									

Client Sample ID: S-15
Date Collected: 10/27/22 09:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 09:42	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-15
Date Collected: 10/27/22 09:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-1
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.31 g	1 mL	598666	11/01/22 08:44	LH	EET PEN
Total/NA	Analysis	8270D		1	0.4 mL	0.4 mL	598902	11/02/22 22:01	S1B	EET PEN
	Instrument ID: Snoopy									
Total/NA	Prep	3050B			0.5533 g	50 mL	599922	11/09/22 16:16	KWN	EET PEN
Total/NA	Analysis	6010B		1			600209	11/10/22 13:21	BAW	EET PEN
	Instrument ID: Squidward									
Total/NA	Prep	7471B			.5170 g	40 mL	599611	11/08/22 10:00	NET	EET PEN
Total/NA	Analysis	7471B		1			599890	11/09/22 09:57	NET	EET PEN
	Instrument ID: HYDRA AA2									
Total/NA	Prep	3060A			0.5417 g	50 mL	600659	11/14/22 18:41	DN1	EET PEN
Total/NA	Analysis	7196A		1	100 mL	100 mL	600686	11/15/22 00:25	DN1	EET PEN
	Instrument ID: Dr_Strange									
Total/NA	Analysis	7196A		1	5 g	50 mL	598401	10/29/22 23:26	DN1	EET PEN
	Instrument ID: Spec-420.1									

Client Sample ID: S-16
Date Collected: 10/27/22 09:45
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 09:42	TMP	EET PEN
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-16

Date Collected: 10/27/22 09:45
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-2

Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.46 g	20 mL	598666	11/01/22 08:44	LH	EET PEN
Total/NA	Analysis	8270D		20	0.4 mL	0.4 mL	598905	11/02/22 22:36	S1B	EET PEN
	Instrument ID: Marianne									

Client Sample ID: S-26

Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 09:42	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-26

Date Collected: 10/27/22 10:30
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-3

Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.11 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	598417	10/30/22 16:39	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3546			15.32 g	1 mL	598666	11/01/22 08:44	LH	EET PEN
Total/NA	Analysis	8270D		5	0.4 mL	0.4 mL	598905	11/02/22 22:57	S1B	EET PEN
	Instrument ID: Marianne									
Total/NA	Prep	3546			15.23 g	5 mL	598524	10/31/22 11:18	LH	EET PEN
Total/NA	Analysis	8081B		5	1 mL	1 mL	599044	11/03/22 23:20	DS	EET PEN
	Instrument ID: Jayden									
Total/NA	Prep	8151A			15.57 g	10 mL	598572	10/31/22 13:28	LH	EET PEN
Total/NA	Analysis	8151A		5	1 mL	1 mL	599164	11/04/22 07:06	DS	EET PEN
	Instrument ID: JORDAN									
Total/NA	Prep	3050B			0.5093 g	50 mL	599922	11/09/22 16:16	KWN	EET PEN
Total/NA	Analysis	6010B		1			600209	11/10/22 13:33	BAW	EET PEN
	Instrument ID: Squidward									
Total/NA	Prep	7471B			.5146 g	40 mL	599611	11/08/22 10:00	NET	EET PEN
Total/NA	Analysis	7471B		1			599890	11/09/22 09:59	NET	EET PEN
	Instrument ID: HYDRA AA2									
Total/NA	Prep	3060A			0.5576 g	50 mL	600659	11/14/22 18:41	DN1	EET PEN
Total/NA	Analysis	7196A		1	100 mL	100 mL	600686	11/15/22 00:30	DN1	EET PEN
	Instrument ID: Dr_Strange									
Total/NA	Analysis	7196A		1	5 g	50 mL	598401	10/29/22 23:26	DN1	EET PEN
	Instrument ID: Spec-420.1									

Lab Chronicle

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Client Sample ID: S-27

Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598479	10/31/22 09:42	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: S-27

Date Collected: 10/27/22 10:20
Date Received: 10/28/22 08:59

Lab Sample ID: 400-227994-4

Matrix: Solid
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	598417	10/30/22 17:04	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3546			15.38 g	1 mL	598666	11/01/22 08:44	LH	EET PEN
Total/NA	Analysis	8270D		10	0.4 mL	0.4 mL	598905	11/02/22 23:17	S1B	EET PEN
	Instrument ID: Marianne									
Total/NA	Prep	3546			15.81 g	5 mL	598524	10/31/22 11:18	LH	EET PEN
Total/NA	Analysis	8081B		20	1 mL	1 mL	599044	11/03/22 23:48	DS	EET PEN
	Instrument ID: Jayden									
Total/NA	Prep	8151A			15.29 g	10 mL	598572	10/31/22 13:28	LH	EET PEN
Total/NA	Analysis	8151A		5	1 mL	1 mL	599164	11/04/22 07:39	DS	EET PEN
	Instrument ID: JORDAN									
Total/NA	Prep	3050B			0.5034 g	50 mL	599922	11/09/22 16:16	KWN	EET PEN
Total/NA	Analysis	6010B		1			600209	11/10/22 13:37	BAW	EET PEN
	Instrument ID: Squidward									
Total/NA	Prep	7471B			.5022 g	40 mL	599611	11/08/22 10:00	NET	EET PEN
Total/NA	Analysis	7471B		1			599890	11/09/22 10:03	NET	EET PEN
	Instrument ID: HYDRA AA2									
Total/NA	Prep	3060A			0.5449 g	50 mL	600659	11/14/22 18:41	DN1	EET PEN
Total/NA	Analysis	7196A		1	100 mL	100 mL	600686	11/15/22 00:27	DN1	EET PEN
	Instrument ID: Dr_Strange									
Total/NA	Analysis	7196A		1	5 g	50 mL	598401	10/29/22 23:26	DN1	EET PEN
	Instrument ID: Spec-420.1									

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Laboratory: Eurofins Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Chromium, trivalent
8260B		Water	Cyclohexane
8260B		Water	Methylcyclohexane
8260B	5035	Solid	Cyclohexane
8260B	5035	Solid	Methylcyclohexane
8260B	5035	Solid	m-Xylene & p-Xylene
8270D	3546	Solid	Acetophenone
Moisture		Solid	Percent Moisture

Method Summary

Client: Bay Environmental Inc
Project/Site: VDOT Area Headquarters

Job ID: 400-227445-1

Method	Method Description	Protocol	Laboratory
8260B	TCL VOA	SW846	EET PEN
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	EET PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	EET PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	EET PEN
8081B	Organochlorine Pesticides (GC)	SW846	EET PEN
8151A	Herbicides (GC)	SW846	EET PEN
6010B	Metals (ICP)	SW846	EET PEN
7471B	Mercury (CVAA)	SW846	EET PEN
7196A	Chromium, Hexavalent	SW846	EET PEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET PEN
Moisture	Percent Moisture	EPA	EET PEN
3050B	Preparation, Metals	SW846	EET PEN
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
3546	Microwave Extraction	SW846	EET PEN
5030B	Purge and Trap	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
5035	Closed System Purge and Trap	SW846	EET PEN
7471B	Preparation, Mercury	SW846	EET PEN
8151A	Extraction (Herbicides)	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114347-39986.1
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 1 of 4
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:
City: Chesapeake	TAT Requested (days): 10 business days
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required
Email: sara@bay-environmental.com	WO #:
Project Name: VDOT Area Headquarters Water	Project #: 40002210
Site:	SSOW#:

Analysis Requested

400-227445 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	8260B - BTEXMN	8260B - TCL volatiles+Naphthalene,xylene isomers	8081B - Pesticides	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N		
S-19	10/17/22	~~14:40~~ 15:10	G	Water	N	N		X					2	
S-20		~~13:45~~ 14:15		Water				X					2	
S-21		~~12:00~~ 12:30		Water			X	X					3	4
S-24		~~9:30~~ 10:00		Water				X					2	
S-25		~~10:30~~ 11:00		Water				X					2	
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10-17-22 1600	Company: Bay Env	Received by:	Date/Time: 10/17/22 1600	Company: EET
Relinquished by:	Date/Time: 10/17/22 1600	Company: EET	Received by:	Date/Time: 10/18/22 924	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.9c IR

Ver: 06/08/2021

Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114346-39985.1
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 1 of 5
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:
City: Chesapeake	TAT Requested (days): 10 business days
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required
Email: sara@bay-environmental.com	WO #:
Project Name: VDOT Area Headquarters Soil	Project #: 40002210
Site:	SSOW#:

Analysis Requested

400-227446 COC

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	6010B, 7471B	8260B - BTEXMN	8270D - TCL Semivolatiles	8081B - TCL Pesticides	8260B - TCL volatiles+Naphthalene,xylene isomers	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	N	N	X	
S-19	10/17/22	14:40	G	Solid	N	N		X							1	
S-20		13:45		Solid				X							1	
S-21		12:00		Solid			X	X							2	
S-24		9:30		Solid				X							1	
S-25		10:30		Solid				X							1	
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-17-22 1600	Bay		10/17/22 1600	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/17/22 1600	EET		10/18/22 924	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9°C IR8

Ver: 06/08/2021

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Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114347-39986.2
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 2 of 4
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:	Analysis Requested
City: Chesapeake	TAT Requested (days): 10 business days	
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No	
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required	
Email: sara@bay-environmental.com	WO #:	
Project Name: VDOT Area Headquarters Water	Project #: 40002210	
Site:	SSOW#:	

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	8260B - BTEXMN	8260B - TCL volatiles+Naphthalene,xylene isomers	8081B - Pesticides	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N		
S-1	10/18/22	10:10	G	Water	N	N	X	X	X				6	
S-2		9.30		Water			X	X					4	
S-3		12:50		Water				X					2	
S-4		11:30		Water			X	X					4	
S-5		10:40		Water			X	X					4	
S-6		12:10		Water			X	X	X				6	
S-22		16:10		Water			X	X					4	
S-28		15:10		Water							X		1	
S-29		14:00		Water							X		1	
				Water										
				Water										

400-227627 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/19/22 1330	Bay Env	[signature]	10/19/22 13:35	EUR
Relinquished by: [signature]	Date/Time: 10/19/22 1600	Company EUR	Received by: [signature]	Date/Time: 10/20/22 956	Company EES
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.6°C, 0.0°C IR9

Ver: 06/08/2021

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Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114346-39985.2
Client Contact: Sara Howard	Phone: 757 436 5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 2 of 5
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Chesapeake	TAT Requested (days): 10 Business Days		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No		
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required		
Email: sara@bay-environmental.com	WO #:		Other:
Project Name: VDOT Area Headquarters Soil	Project #: 40002210		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	6010B, 7471B	8260B - BTEXMN	8270D - TCL Semivolatiles	8081B - TCL Pesticides	8260B - TCL volatiles+Naphthalene,xylene isomers	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N		
S-1	10-18-22	1000	G	Solid	N	N	X	X		X					3	
S-2		910		Solid			X	X							2	
S-3		1240		Solid				X							1	
S-4		1115		Solid			X	X							2	
S-5		1035		Solid			X	X							2	
S-6		1200		Solid			X	X		X					3	
S-22		1610		Solid			X	X							2	
S-28		1500		Solid								X			1	
S-29		1340		Solid								X			1	
				Solid												
				Solid												

400-227628 COC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sara Howard	10-19-22 1330	Bay Env	C&K Leonard	10/19/22 1835	EURO
C&K Leonard	10/19/22 1800	EURO		10/20/22 956	EES
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0C, 0.0C IR9

Ver: 06/08/2021

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Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114347-39986.3
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 3 of 4
Company: Bay Environmental Inc	PWSID:	Analysis Requested		Job #:

Address: 648 Independence Parkway	Due Date Requested:
City: Chesapeake	TAT Requested (days): 10 business days
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required
Email: sara@bay-environmental.com	WO #:
Project Name: VDOT Area Headquarters Water	Project #: 40002210
Site:	SSOW#:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	8260B - BTEXMN	8260B - TCL volatiles+Naphthalene,xylene isomers	8081B - Pesticides	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N		
S-23	10/24/22	9:30	G	Water	N	N		X					2	
S-9	"	10:45	"	Water	"	"	X	X					4	
S-11	"	11:45	"	Water	"	"	X	X					4	
S-12	"	12:50	"	Water	"	"		X					2	
S-13	"	15:50	"	Water	"	"		X					2	
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

400-227841 COC

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10-25-22	Bay En-	[signature]	10/25/23 1500	EET
2	[signature]	10/25/22 1630	EET			
3				[signature]	10-26-22/912	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.0°C IR8

Ver: 06/08/2021

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Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114346-39985.3
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 3 of 5
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:
City: Chesapeake	TAT Requested (days): 10 business days
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required
Email: sara@bay-environmental.com	WO #:
Project Name: VDOT Area Headquarters Soil	Project #: 40002210
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	6010B, 7471B	8260B - BTEXMN	8270D - TCL Semivolatiles	8081B - TCL Pesticides	8260B - TCL volatiles+Naphthalene,xylene isomers	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N		
S-23	10/24/22	~~10~~ 9:10	G	Solid	N	N		X							1	
S-9		10:15		Solid			X	X							2	
S-11		11:30		Solid			X	X							2	
S-12		12:30		Solid				X							1	
S-10		13:30		Solid			X	X		X					3	
S-13		15:20		Solid				X							1	
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												

400-227842 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-25-22	Bay Env		10/25/22 1500	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/25/22 1630	E&T			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10-26-22/912	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.0°C IR8

Ver: 06/08/2021

Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H 400-227957 COC	Carrier Tracking No(s):	COC No: 400-114346-39985.4
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 4 of 5
Company: Bay Environmental Inc	PWSID:			Job #:
Address: 648 Independence Parkway	Due Date Requested:			
City: Chesapeake	TAT Requested (days): 10 business day			
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No			
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required			
Email: sara@bay-environmental.com	WO #:			
Project Name: VDOT Area Headquarters Soil	Project #: 40002210			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	6010B, 7471B	8260B - BTEXMN	8270D - TCL Semivolatiles	8081B - TCL Pesticides	8260B - TCL volatiles+Naphthalene,xylene isomers	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N		
S-18	10-25-22	930	G	Solid	N	N					X		X		2	
S-17		1115		Solid							X		X		2	
S-8		1240		Solid									X		1	
S-7		1355		Solid				X							1	
S-14		1530		Solid			X	X				X			3	
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												
				Solid												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10-26-22	Bay Env	[signature]	10/26/22 1340	EET
Relinquished by: [signature]	Date/Time: 10/26/22 1600	Company	Received by: [signature]	Date/Time: 10/27/22 924	Company EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR9

Ver: 06/08/2021

Virginia Beach #202

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H 400-227959 COC	Carrier Tracking No(s):	COC No: 400-114347-39986.4
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 4 of 4
Company: Bay Environmental Inc	PWSID:			Job #:
Address: 648 Independence Parkway	Due Date Requested:			
City: Chesapeake	TAT Requested (days): 10 Business days			
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No			
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required			
Email: sara@bay-environmental.com	WO #:			
Project Name: VDOT Area Headquarters Water	Project #: 40002210			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	8260B - BTEXMN	8260B - TCL volatiles+Naphthalene,xylene isomers	8081B - Pesticides	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	A	N	N		
S-10	10-24-22	1345	G	Water	N	N	X	X	X				3	Sample on 10-24-22 are more S. It than water
S-10	10-25-22	8:40 16:30		Water			X	X	X				3	Samples on 10-25-22 are more water - but amber is not full
S-18	10-25-22	1020		Water						X		X	4	
S-17		1135		Water						X		X	4	
S-8		1300		Water						X			2	
S-7		1410		Water				X					2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10.26.22	Company Eurofins	Received by:	Date/Time: 10/26/22 1340	Company EET
Relinquished by:	Date/Time: 10/26/22 1600	Company Eurofins	Received by:	Date/Time: 10/27/22 924	Company EETS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0° CTC

Ver: 06/08/2021

Virginia Beach #202

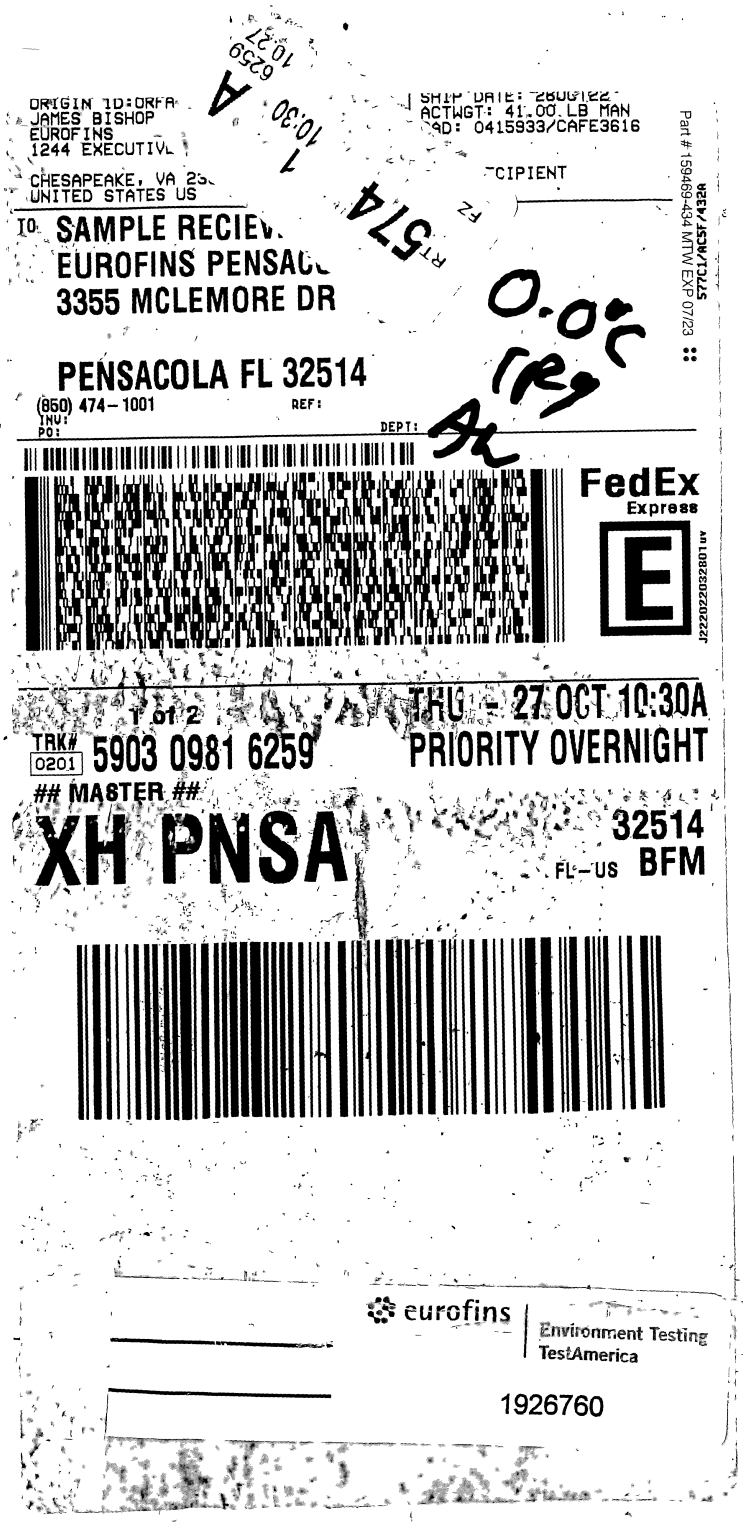
Sample Control Checklist

400-227959 Login
PM: Swafford, Mark H
Company: Bay Environmental Inc

Inspected by:
Labeled by:
Secondary Label Rev:
COC Signed/Dated:
COC Temp/IR Gun Listed:

Logged by:

Notes:


ORIGIN ID:ORFA
JAMES BISHOP
EUROFINS
1244 EXECUTIVE
CHESAPEAKE, VA 23
UNITED STATES US
SHIP DATE: 26OCT22
ACTWGT: 41.00 LB MAN
CAD: 0415933/CAFE3616
RECIPIENT
TO SAMPLE RECEIV
EUROFINS PENSAC
3355 MCLEMORE DR
PENSACOLA FL 32514
(850) 474-1001
REF:
INV:
PO:
DEPT:
Part # 159469-434 MTW EXP 07/23
577C1/ACSF/432A
FedEx
Express
J222022032801uv
1 of 2
THU - 27 OCT 10:30A
TRK# 0201 5903 0981 6259
PRIORITY OVERNIGHT
MASTER
XH PNSA
32514
FL-US BFM
eurofins
Environment Testing
TestAmerica
1926760

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sara Howard	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-114346-39985.5
Client Contact: Sara Howard	Phone: 757-436-5900	E-Mail: Mark.Swafford@et.eurofinsus.com	State of Origin:	Page: Page 5 of 5
Company: Bay Environmental Inc	PWSID:			Job #:

Address: 648 Independence Parkway	Due Date Requested:
City: Chesapeake	TAT Requested (days): 10 business days
State, Zip: VA, 23320	Compliance Project: Δ Yes Δ No
Phone: 757-436-5900(Tel)	PO #: Purchase Order not required
Email: sara@bay-environmental.com	WO #:
Project Name: VDOT Area Headquarters Soil	Project #: 40002210
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_GRO - GRO (C6-C10)	8015C_DRO - DRO C10-C28	6010B, 7471B Chromium 3 + 6	8260B - BTEXMN	8270D - TCL Semivolatiles	8081B - TCL Pesticides	8260B - TCL volatiles+Naphthalene,xylene isomers	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N		
S-15	10-27-22	9:30	C	Solid	N	N			X		X				2	
S-16		9:45	G	Solid							X				1	
S-26		10:30	C	Solid					X		X	X	X	X	5	
S-27		10:20	C	Solid					X		X	X	X	X	5	

400-227994 COC

#202 Virginia Beach

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-27-22			10/27/22 1506	ECT
	10/27/22 1630	ECT		/	
	/			10-28-22 08:59	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227445
List Number: 1
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227446
List Number: 1
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227627
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6, 0.0°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227628
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6, 0.0°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227841
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227842
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227957
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227959
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bay Environmental Inc

Job Number: 400-227445-1

Login Number: 227994
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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Authorization

Generated
11/15/2022 8:24:20 AM

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(850)471-6207