



# **Engineering Evaluation/Cost Analysis Addendum Investigation Summary Report**

## **Virgin Islands National Park**

**Caneel Bay Resort  
St. John, U.S. Virgin Islands  
EDL Number 5SER3346**

Prepared by



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## List of Abbreviations and Acronyms

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
AST	aboveground storage tank
CBIA	CBI Acquisitions, LLC
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DDT-total	DDT plus its metabolites DDD and DDE
DU	decision unit
EE/CA	Engineering Evaluation/Cost Analysis
EMI	electromagnetic induction
ESV	Ecological Screening Value
FAAS	Flame Atomic Absorption Spectrometry
ft bgs	feet below ground surface
GPR	ground-penetrating radar
GPS	global positioning system
HA	homogeneous area
IDW	investigation-derived waste
ISM	Incremental Sampling Methodology
JJBA	Javier J. Bidot Associates
kg	kilogram
L	liter
LBP	lead-based paint
MCL	Maximum Contaminant Level
MDL	method detection limit
µg	microgram
mg	milligram
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NESHAP	National Emissions Standard for Hazardous Air Pollutants
NOB	non-organically bound
NPS	National Park Service
PAH	polycyclic aromatic hydrocarbon
PAL	project action level
PCOPC	preliminary contaminant of potential concern
PCB	polychlorinated biphenyl



PID	photoionization detector
PLM	Polarized Light Microscopy
ppmV	parts per million by volume
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RG	Removal Goal
RSL	Regional Screening Level
RUE	Retained Use Estate
SAP	Sampling and Analysis Plan
SLERA	screening level ecological risk assessment
TEM	Transmission Electron Microscopy
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
USVI	U.S. Virgin Islands
VIIS	Virgin Islands National Park
VISL	Vapor Intrusion Screening Level
VOC	volatile organic compound



## 1. Introduction

This Engineering Evaluation/Cost Analysis (EE/CA) Addendum Investigation Summary Report presents the results of investigation activities completed in November 2021 and January 2022 at the Caneel Bay Resort (the Resort) located within Virgin Islands National Park (VIIS) on St. John, U.S. Virgin Islands (USVI). Earlier in 2021, the National Park Service (NPS) performed an EE/CA (NPS, 2021a) pursuant to its lead agency authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The NPS retained VHB under contract 140P2021D0003; Call Order No. 140P5421F0074 to perform additional investigation activities at the Resort to address data gaps identified in the EE/CA report and prepare an Addendum to the EE/CA Report (EE/CA Addendum) documenting the results of the additional investigation. This report was prepared as an appendix to the EE/CA Addendum report, which provides detailed information regarding the Resort location, history, setting, and conceptual site model.

The Resort includes the entire 150 acres covered by the Retained Use Estate (RUE) established in the 1983 Indenture Agreement.

The early-2021 EE/CA investigation focused on approximately 8 acres in three portions of the Resort, designated as:

- Area 1: a storage area on gravel near the wastewater treatment plant
- Area 2: a support area for the Resort encompassing the engineering, maintenance, landscaping, generator, and fuel facilities, located southwest of Area 1
- Area 3: an unpermitted landfill immediately east of Honeymoon Beach

During the EE/CA process, NPS identified data gaps and additional items to be addressed to more fully characterize the nature and extent of contamination at the Resort. The Site, previously defined to include Areas 1, 2, and 3, has been expanded since the early-2021 EE/CA investigation to include possible asbestos and lead-based paint in damaged/exposed building materials in partially intact buildings and debris disbursed from the 2017 hurricanes, possible asbestos in the pipe network, Cottage 7 (based on reports of an underground storage tank), and the Catchment Basin area (based on reports of pesticide disposal and discovery of an unidentified buried item).

Based upon previous Site investigations and reports of historical operations and actions, preliminary contaminants of potential concern (PCOPCs) for this investigation include:



- Asbestos (building materials, debris disbursed by the hurricanes and demolition, and piping)
- Lead (building coatings)
- Arsenic (background and potential clean fill source)
- Volatile organic compounds (VOCs) (subsurface soil and groundwater near a possible underground storage tank (UST) at Cottage 7, aboveground storage tanks (ASTs) and fuel dispenser pump in Area 2, and waste storage at Area 1)
- Polycyclic aromatic hydrocarbons (PAHs)- the standard list of 18 PAHs was used for this investigation: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, pyrene, and phenanthrene (subsurface soil and groundwater near possible UST, ASTs and fuel dispenser pump, and waste storage at Area 1)
- Metals- except where sampling was limited to arsenic or lead, metals samples included the combined Resource Conservation and Recovery Act (RCRA) 8 metals and 13 Priority Pollutants list, as follows: antimony, arsenic, barium, beryllium, cadmium, chromium (III and VI), copper, lead, mercury, nickel, selenium, silver, thallium, and zinc (in all groundwater)
- Polychlorinated biphenyls (PCBs) (near the waste storage at Area 1). PCBs were also to be analyzed in a sample from a well in the landfill, but the well continues to be dry.
- Organochlorine pesticides (near the Catchment Basin in the vicinity of the waste storage at Area 1, and in inactive water supply wells that were identified from background research). Pesticides were also to be analyzed in a sample from the well in the landfill, but groundwater was not present. Similarly, no water supply wells were identified following additional inquiries and field reconnaissance.

As documented in the Sampling and Analysis Plan for the EE/CA Addendum (SAP; NPS, 2021b), this investigation was designed to address the following principal investigation questions (“D” indicates a decision question, and “E” indicates an estimation question):

1. Uncertain items

E.1.1: Where is asbestos-containing material present and exposed to the environment?

E.1.2: Where is lead-based paint present and exposed to the environment?

D.1.1: Is a UST present outside Cottage 7?

D.1.2: Does the buried item near the Catchment Basin present a threat of release of hazardous substances or petroleum?



D.1.3: Are the water supply wells present, operational, and accessible for sampling?

2. Residual AST and UST contamination

E.2.1: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near Cottage 7?

E.2.2: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near the AST and fuel dispenser pump in Area 2?

D.2.1: Do concentrations of PCOPCs related to the UST at Cottage 7 pose a risk to human health or the environment?

D.2.2: Do concentrations of PCOPCs related to the AST and fuel dispenser pump in Area 2 pose a risk to human health or the environment?

3. Arsenic background and clean fill values

E.3.1: What is a representative background arsenic concentration in Site surface soil?

D.3.1: Are arsenic concentrations in the identified clean fill source less than Site surface soil background concentrations and acceptable risk-based concentrations?

4. Possible Migration of Contaminants in Groundwater

D.4.1: Is sufficient groundwater present in soil above bedrock to collect samples in the wet season?

D.4.2: Are concentrations of PCOPCs (metals, PCBs, and pesticides) present in Site groundwater at the landfill at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

D.4.3: Are concentrations of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Cottage 7 UST and Area 2 AST and fuel dispenser pump at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

D.4.4: Are concentrations of PCOPCs (VOCs, PAHs, metals, and pesticides) present in water supply groundwater at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

D.4.5: Are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in Site groundwater downgradient of the waste storage at Area 1 at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

E.4.1: What is the extent of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Area 2 AST and fuel dispenser pump?



## 5. Possible Waste Storage at the Catchment Basin and Area 1

D.5.1: Do concentrations of pesticides present in surface soil near the Catchment Basin exceed Site Removal Goals established by the EE/CA?

D.5.2: If there is evidence of contamination at the Catchment Basin buried item, are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

D.5.3: Are PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil downgradient of the waste storage at Area 1 at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

Investigation objectives were met. The EE/CA Addendum investigation answered questions about previously unknown items and identified soil and groundwater concentrations of preliminary contaminants of potential concern (PCOPCs), including asbestos, metals, VOCs, and PAHs. Samples of arsenic collected from background and potential clean fill decision units provide data to reevaluate arsenic at the Site. A risk assessment was completed using the EE/CA Addendum investigation data, and only one analyte, naphthalene, would pose an unacceptable risk at the Site if the water at the sampled location is used as a household water supply (Appendix 3 to the EE/CA Addendum Report).

The EE/CA Addendum investigation identified evidence of asbestos-containing material (ACM) in building components exposed to the environment at several structures, in debris on the ground from the 2017 hurricanes, and in piping material. None of the materials were found to be friable at the time of the investigation. However, much of the ACM is exposed to the elements, making it likely to weather and become friable over time. Peeling lead-based paint was identified on one column of a building; other building columns may also be coated in the same paint. These columns are inside buildings that are now missing a wall; the columns are on the concrete floor, which is surrounding by a low concrete knee wall. Based on the limited area of soil likely to be affected by peeling paint, the small surface area of peeling paint on the columns, and the relatively low concentration of lead, this material is unlikely to present a threat of a release to the environment.

## 2. Field Investigation Activities and Assessment

VHB conducted EE/CA Addendum investigation field work from November 11 through 19, 2021. As a result of a shipping delay that caused some samples to exceed acceptable hold times, VHB returned to collect additional groundwater samples on January 12 and 13, 2022. Daily



investigation activities are summarized in Table 1 of the Field Activities Report, provided as Attachment B-4. As discussed in Sections 2.3 through 2.10, field work included ACM and lead-based paint sampling; a geophysical investigation for asbestos-containing pipes; surface and subsurface soil investigations; and a groundwater investigation. Fieldwork activities were designed to answer decision and estimation questions identified in the SAP.

Subcontractor Javier J. Bidot Associates (JJBA) provided underground utility and buried material locating services, using ground penetrating radar (GPR) and electromagnetic induction (EMI). JJBA also provided surveying services and recorded the locations of soil borings, wells, and underground features.

Drilling subcontractor On-Site Environmental (On-Site), a USVI-certified driller, provided direct-push and auger drilling, operated an excavator, installed groundwater monitoring wells, and closed an existing monitoring well.

As requested by NPS, Caneel Bay Resort operator CBI Acquisitions, LLC (CBIA) provided debris and vegetation removal services before and during the field work for investigation crews to access portions of the Resort for the GPR survey and UST investigation.

NPS representatives present included the NPS Environmental Compliance and Cleanup Division Lead, Shawn Mulligan, during the week of November 8, 2021, and the acting NPS Federal Government Lead, Stephen Mitchell, during the week of November 13, 2021. Representatives of CBIA were also present during the investigation.

## **2.1. General Site Procedures**

VHB and its subcontractors performed the EE/CA Addendum investigation fieldwork in general conformance with the EE/CA Sampling and Analysis Plan (SAP) Addendum, dated November 4, 2021, and EE/CA SAP Addendum 2, dated January 3, 2022, with minor deviations as discussed in Attachment B-4, Field Activities Report. The Field Activities Report includes details on field program operation, including field forms (e.g., boring logs, sample forms, calibration logs, etc.) generated during the field program.

VHB performed work according to the Health and Safety Plan provided as Appendix 3 of the EE/CA SAP, dated February 5, 2021, and the Health and Safety Plan Addendum provided as Appendix 3 of the November 2021 EE/CA SAP Addendum. VHB and NPS did not witness or receive reports of health and safety-related incidents associated with the EE/CA Addendum investigation, nor did they receive complaints regarding drilling activities creating unacceptable dust, vapor, odor, or noise.





Two existing dug wells, described in this report, were identified and sampled. NPS may evaluate these wells further for historical significance. VHB and NPS did not identify buried items of potential historical significance during drilling or surface soil sampling.

On-Site established a central decontamination area for the drilling rig and tooling within the engineering and maintenance area. On-Site lined a decontamination pad with heavy-gauge plastic sheeting to capture decontamination water, which was transferred to a 55-gallon drum. All investigation-derived waste (IDW) generated during the field investigation was contained in 55-gallon drums; two drums containing IDW water and five containing IDW soil were filled during the EE/CA Addendum fieldwork. VHB collected and ALS Global analyzed samples of IDW water and soil. Drums were labeled and staged in the equipment and maintenance zone of Area 2. Laboratory results, provided in the data validation reports in Attachment B-3, indicate the IDW is not hazardous. As of the date of this report, On-Site is arranging to dispose of the waste in a manner satisfactory to the USVI Department of Natural Resources, which may require resampling the drummed materials.

ALS Global shipped sample containers to VIIS in Cruz Bay, USVI. Following sampling, VHB packed samples with wet ice in coolers and shipped them via FedEx to the ALS Global Laboratory (ALS Global) in Middletown, Pennsylvania. One shipment of three coolers, sent on November 19, 2021, was affected by a delay at FedEx's warehouse, which delayed some of the groundwater samples. Terracon validated analytical data using the criteria established in the SAP. Terracon's data validator was aware of the delays and provided guidance regarding groundwater resampling. Validated analytical laboratory reports, including chains of custody, are provided in Attachment B-3.

Terracon concluded that the reported results are usable for the intended purpose, with qualifications applied where necessary based on the data validation effort. Several non-detect PAH and VOC results from November 2021 were rejected because the hold time and sample temperatures exceeded the SAP requirements, but these are included in the tables because the results are similar to results for the samples collected in January at the same monitoring wells. Other VOC, PAH, arsenic, and pesticide results were qualified because the results exceeded hold times, either during shipping or at the laboratory. Data validation reports are provided in Attachment B-3.

The general methodologies for collecting Incremental Sampling Methodology (ISM) surface soil samples, discrete subsurface samples, and groundwater samples are summarized in the following subsections.



### ***2.1.1. General ISM Soil Sampling Procedures***

VHB collected three replicate ISM samples (designated as A, B, and C) from each approximately 0.25-acre decision unit (DU). Each ISM replicate was composed of 40 approximately equal volume increments. To collect each of the 40 increments, VHB used a cordless drill with a 1-inch diameter ship auger bit to obtain an approximately equal volume of soil from a depth of 0 to 0.5 feet below ground surface (ft bgs). Stainless steel spoons were used, as required, to transfer soil to sample containers without mixing or sieving. Samples were collected in plastic vessels with screw-top closures. Following collection, sample containers were placed on wet ice for preservation and shipped via FedEx to ALS Global.

VHB decontaminated sampling equipment with detergent and distilled water between each DU. Decontamination water was collected in 5-gallon buckets and transferred to a 55-gallon drum for characterization and disposal.

### ***2.1.2. General Discrete Soil Investigation Procedures***

VHB staked out proposed drilling locations based on the November 2021 SAP Addendum and actual field observations. Drilling locations were adjusted, as required, based on utility mark-outs made by JJBA. Following drilling, JJBA surveyed the locations and ground surface elevations of each boring.

VHB directed and observed drilling activities conducted by On-Site. On-Site collected continuous soil cores at each boring location by advancing dual tube samplers with disposable liners using a track-mounted direct-push drill rig. After drilling, On-Site closed each borehole with hydrated bentonite.

VHB screened soil cores with a photo-ionization detector (PID) and logged observations, including soil type, color, and odor. Soil boring logs are provided in Attachment B-2.

VHB collected soil samples in laboratory-supplied glassware with stainless steel spoons. Sample containers were placed on wet ice for preservation following collection. Periodically throughout the fieldwork, VHB packed sample coolers with wet ice and shipped them via FedEx to ALS Global.

On-Site constructed a decontamination pad in the engineering and maintenance area, and decontaminated drilling equipment using detergent and potable water before use at each boring location. Decontamination wastewater was contained in buckets or in the decontamination pad and transferred to a 55-gallon drum for characterization and disposal.



### ***2.1.3. General Groundwater Investigation Procedures***

Monitoring wells were planned near the AST release area in Area 2 and at Area 1, but water was only present in Area 2. To confirm the presence or absence of groundwater before constructing the well, On-Site placed a 1-inch diameter polyvinyl chloride (PVC) riser pipe in the borehole as a temporary piezometer. VHB checked each piezometer for water with an electronic interface probe one day after installation. If no water was present, On-Site removed the temporary piezometer and closed the borehole with hydrated bentonite.

Where water was present, On-Site constructed a monitoring well at the direction of VHB. A 5-foot by 2-inch diameter pre-pack PVC well screen with 0.006-inch slots was threaded to a 1.5-inch diameter PVC casing and placed in the boring. Pre-packed well screens were used to place a uniform sand pack around the well screen. Annular sand and bentonite seal details are shown on the well construction forms in Attachment B-2.

On-Site completed each well at the ground surface with a flush-mount vault. The soil boring number was used in the well name; for example, MW-2-06 was constructed in soil boring SC-2-06.

VHB developed monitoring wells at least 24 hours after installation by bailing and over-pumping with a peristaltic pump. As wells were constructed with smaller risers than screen diameters (due to material availability), surge block devices could not be used as originally planned. Where the well recharge rate allowed, wells were purged of at least three well volumes. If the well ran dry, it was purged twice. Due to slow recharge at MW-2-06 and MW-2-21, the total purged volume was less than three well volumes.

VHB checked for floating petroleum product and measured water levels in all wells on November 18, 2021, and January 12, 2022, using an electronic oil-water interface probe. No floating product was identified.

VHB purged and sampled groundwater using low-flow methods with a peristaltic pump and tubing dedicated to each well. VHB measured field parameters during low-flow purging and collected the samples when stable conditions were achieved. Because recharge rates at MW-2-06 and MW-2-21 were less than the minimum flow of the pump, the wells were purged dry and grab samples were collected from the recharge. Samples for VOC analysis were collected first, followed by PAHs, pesticides, and metals. Sample containers were sealed, placed in a cooler with wet ice, and shipped to ALS Global.

As described in the Field Activities Report (Attachment B-4), some of the groundwater samples were delayed by FedEx shipping in November 2021 and exceeded allowable hold times. VHB returned to the Resort on January 12-13, 2022 to collect an additional set of groundwater



samples. An error on the chain-of-custody requesting sampling for “PAHs by 8081” (instead of “PAHs by 8270B”) resulted in the laboratory analyzing several groundwater samples for PCBs. Because PCBs in groundwater were not Area 2 PCOPCs, the results are not presented in the tables. The PCB results are included in the laboratory reports, and PCBs were not detected.

## 2.2. Screening Criteria

During the EE/CA, the risk assessment results and Site background concentrations were considered to select Removal Goal (RG) concentrations for the contaminants of concern (COCs) in soil listed in Text Table 2.2a. The EE/CA Addendum investigation included sampling to evaluate background arsenic values.

Text Table 2.2a. Summary of Soil RGs	
COC	RG (milligrams per kilogram, mg/kg)
Arsenic	2 (pending the results of the EE/CA Addendum <sup>1</sup> )
Barium	185
Copper	99
Zinc	147
DDT-Total	0.17
Aldrin	0.018
Chlordane	1.20
Dieldrin	0.034

As defined in the SAP, for PCOPCs, no RGs have been established and the following project screening levels are used to compare sample concentrations to human health and ecological

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<sup>1</sup> The EE/CA addendum investigation results do not indicate a release of arsenic at the Resort, and the RG for arsenic has been removed.



screening levels. The lowest screening level was selected as the Project Action Level (PAL). The sources of PALs are summarized in Text Table 2.2b.

Text Table 2.2b. Summary of Screening Levels		
Medium	Human Health	Ecological
Soil	<p>US Environmental Protection Agency (USEPA) Regional Screening Level (RSL) for Resident Soil, target cancer risk of 1 in one million (1E-06) and target hazard quotients of 0.1 (USEPA, 2021)</p> <p>Virgin Islands UST Rules and Regulations Soil Cleanup Target Levels (Virgin Islands Rules and Regulations, 2014)</p>	<p>NPS Ecological Screening Values (ESVs) for Soil – Screening Level Ecological Risk Assessment (SLERA) Contaminant of Potential Ecological Concern (COPEC) Selection ESV, lowest ESV from Table 5: Soil ESVs for Plants and Soil Invertebrates and Table 6: Soil ESVs for Birds and Mammals (NPS, 2018). This document reviews candidate sources for ecological screening levels and selects the most appropriate ESVs</p>
Groundwater	<p>USEPA RSL for Tapwater, target cancer risk of 1E-06 and target hazard quotients of 0.1 (USEPA, 2021)</p> <p>USEPA Vapor Intrusion Screening Levels (VISLs) for groundwater adjusted for a target hazard quotient of 0.1 (USEPA, 2020)</p> <p>Virgin Islands Maximum Contaminant Levels (MCLs), which are the same as the National Primary Drinking Water Regulations (USEPA, 2010)</p> <p>Virgin Islands UST Rules and Regulations Water Cleanup Target Levels, Groundwater Cleanup Criteria (Virgin Islands Rules and Regulations, 2014)</p>	<p>NPS ESVs for Surface Water – lowest value from SLERA COPEC ESV, Table 1a: Surface Water ESVs for Aquatic Receptors (Freshwater) and SLERA COPEC Selection ESV, Table 7, Surface Water Ecological Screening Values for Amphibian Receptors (NPS, 2020). This document reviews candidate sources for ecological screening levels and selects the most appropriate ESVs. The document suggests that if aquatic receptors may come into contact with contaminated groundwater, it would be appropriate to compare groundwater “concentrations to surface water ESVs to determine if further assessment of this exposure scenario is warranted” (NPS, 2020).</p>

As discussed in Sections 2.5 through 2.10, VHB made a preliminary comparison of study constituent concentrations to PALs. In accordance with CERCLA guidance, screening levels are considered a preliminary step to risk assessment and do not necessarily indicate unacceptable risk. A risk assessment has been performed using the data from this investigation (see EE/CA Addendum Appendix C) to evaluate Site-specific risk.



## **2.3. Asbestos and Lead-Based Paint Investigation**

### **2.3.1. Purpose and General Approach**

VHB's approach to determining lead levels in building materials was to collect a series of suspect paint chips from known older structures in different areas of the Resort, including Turtle Bay, Cottage Point, Caneel Beach, Little Caneel Beach, Garden View, and the Maintenance Area. Instead of collecting paint chips from each building in these areas, VHB collected samples to create a general representation, considering the state of the paint and age of the building.

The asbestos-containing materials (ACM) investigation had a larger scope than the lead paint investigation because multiple layers of building materials may contain asbestos. To determine which buildings contained ACM, VHB planned to collect samples from the same areas as the lead paint sampling, but to collect more samples from each structure, and to include more structures in each area. In addition to samples collected from partially intact buildings, samples were also collected from hurricane debris scattered throughout the Resort property. Samples were taken from possible ACM sources including dry wall and joint compound, mortar, plaster, roofing components, caulk and glaze on doors and windows, flooring, and tile. As planned, only materials that were found exposed to the environment were sampled for asbestos. For example, if a building was intact, no destructive testing was performed to sample layers beneath the surface. However, if a building room was missing a roof or at least one wall, material that could be seen was sampled. Therefore, the results from this investigation should not be considered a complete inventory of ACM to be used for demolition or renovation planning.

Another goal for this field effort was to locate suspected asbestos piping buried beneath the Resort. To accomplish this task, suspected asbestos pipes were traced and mapped by geophysical methods with test pits to confirm. Representative samples from each pipe run were collected for asbestos analysis. VHB also sampled some aboveground piping materials, including segments of piping that were detached from the piping system or were no longer being used for their intended purpose (e.g., a segment of piping used as a valve cover).

### **2.3.2. Methods**

#### **Asbestos**

Guidelines used for the asbestos inspection are established by the USEPA in the *Guidance for Controlling Asbestos Containing Materials in Buildings*, Office of Pesticides and Toxic Substances, DOC #560/5-85-024, and Title 40 of the Code of Federal Regulations Part 763, Asbestos Hazard Emergency Response Act (AHERA). Field information was organized using the AHERA concept of



Homogeneous Area (HA). An HA is defined as a suspect material of similar age, appearance, and function. Each material was grouped together as a specific HA and then sampled accordingly.

Suspected ACM pipes were visually identified at various locations at the Resort during the February and November 2021 investigations. Where these pipes were underground, JJBA used geophysical methods, including GPR and EMI with a metallic snake, to trace their locations. Where signals were lost or unclear, On-Site used a mini-excavator to expose the pipe and its location, orientation, and apparent material.

Bulk samples of suspect building materials were analyzed by Polarized Light Microscopy (PLM) with dispersion staining for friable samples, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP) EPA600/R-93/116. Suspect non-organically bound (NOB) materials were analyzed via Transmission Electron Microscopy (TEM) per 40 CFR Part 763 NESHAP EPA600/R-93/116. Bulk samples were submitted to EMSL Analytical, Inc. (EMSL) in New Jersey.

Asbestos in soil samples were collected as composite samples in areas of the Resort with suspected ACM debris. Samples were analyzed via Qualitative Asbestos Analysis by TEM. Samples were submitted to EMSL in New Jersey.

### **Lead**

VHB's USEPA certified lead-based paint (LBP) Inspector/Risk Assessor conducted a limited inspection within the Resort to identify potential LBP-coated surfaces. The LBP inspection was performed in accordance with the Society for Protective Coatings - Project Design, Industrial Lead Paint Removal Handbook, Volumes I and II, *Guidelines for Field Sampling of Coating Films*, OSHA Hazard Communication Standard 29 CFR 1910.1200, and OSHA Lead in Construction Standard 29 CFR 1926.62.

Paint chip samples were collected and forwarded under chain of custody to EMSL in New Jersey. EMSL is accredited to perform Lead in Paint Chip analysis utilizing Flame Atomic Absorption Spectrometry (FAAS) by method SW 846 3050B/7000B. The results were reported as a percentage of weight. USEPA defines lead-based paint (LBP) as paint containing lead at a concentration of equal to or greater than 0.5 percent (%) lead by weight.

### **2.3.3. Results**

#### **Asbestos**

VHB sampled 255 suspect materials within the Resort. Building materials that contain asbestos mineral concentrations greater than one percent (>1%) are considered ACM. Laboratory results





indicated asbestos was present at concentrations >1% in 19 HAs. At the time of the EE/CA Addendum investigation, none of the asbestos was identified as friable (easily crushed by hand). However, much of the asbestos-containing material present at the Site is exposed to the environment, which could cause asbestos to become friable over time. In addition, ACM in hurricane debris located on the ground surface may be unintentionally disturbed by routine activities such as landscape maintenance (e.g., mowing the grass), which may cause asbestos fibers to be released to the air. None of the soil samples collected at debris piles in Area 1 or at Scott's Beach contained detectable concentrations of asbestos. All asbestos building material and soil sampling results are summarized in Table B-1, and the following ACMs were identified, as shown on Figure B-1.

Text Table 2.3.3 Summary of ACM			
Area	Roof	Window or Door	Other
Turtle Bay Buildings (Estate Restaurant, Units, Estate House), built or renovated 1960-1961	Type II	Window caulk, window screen caulk	Joint compound
Scott Beach Buildings (Units), built 1960	Type II	Window caulk	Buried pipe, estimated 300 feet
Hawksnest (Units), built 1967	Type II	Window glazing	None
Cottage Point (Units), built 1963	None	None	Glue at mirror
Caneel Beach (Units), built 1969	None	None	Glue on ceiling
Garden View (One unit), construction date unknown	None	Window caulk	None
Main Building, built 1957-1959	North Roofing	None	None
Maintenance Shop and Engineer Office in Area 2, construction date unknown	None	Window glazing	12" white vinyl composite tile; buried pipe network, estimated 1,100 feet
West of Resort Front Entrance	None	None	Partially buried pipe section, approximately 5 feet





Text Table 2.3.3 Summary of ACM			
Area	Roof	Window or Door	Other
Wastewater Treatment Area (Area 1)	None	None	Loose pipe section, approximately 5 feet
Upper Little Caneel Beach/Area 2 to Area 3 (aboveground/underground)	None	None	Aboveground pipe, estimated 1,500 ft; buried pipe, unknown length

An estimated 1,100-foot buried asbestos-cement pipe was identified within much of Area 2. The network appeared to drain to a flooded underground cistern to the southeast of the former giftshop. As the cistern was flooded, possible additional piping leading to the cistern could not be investigated. The underground piping also appeared to lead beneath an active drinking water cistern and could not be traced farther.

An estimated 1,500-foot aboveground asbestos-cement pipe was traced from Area 3 to the west of Area 2 where it went underground. JJBA and On-Site attempted to locate it underground but were unable to do so due to Site constraints.

Buried asbestos-cement pipes are connected to a manhole near Scott Beach. The pipe is connected to non-asbestos material before the next manhole to the north. To the south, the pipe could not be reliably traced or confirmed and is suspected to have collapsed. Pipes to the south of the area that appeared to be in-line with the asbestos-cement pipes were either PVC or concrete.

Individual short sections of asbestos-cement pipe were identified on the gravel pad of Area 1 and near the front entrance of the Resort. The asbestos-cement pipe near the front entrance was in-use as a guard for a buried valve installed in iron piping.

### **Lead**

Only one lead sample was positively identified as LBP: cream-colored peeling paint on a column at Caneel Beach Unit 29. This building was constructed in 1969 and renovated in 1986. The concentration of lead is 1.9%. This column is similar to other columns in the Caneel Beach units. These columns were once inside rooms but have been exposed to the environment either by pre-hurricane renovations or hurricane damage, as walls in the units are missing but the roof is intact. Assuming there are four columns in each of the 25 rooms, approximately 100 columns may be coated in lead-based paint. Unlike on the sampled column, the paint is in good condition on the majority of columns, especially those that are in inside corners and sheltered



by a roof. In addition, the columns are on a concrete slab surrounded by a low concrete knee wall, which limits the distribution of paint chips to the soil. A concrete patio between the knee wall and soil further buffers the soil. Based on the limited area of soil likely to be affected by peeling paint, the small surface area of peeling paint on the columns, and the relatively low concentration of lead, this material is unlikely to present a threat of a release to the environment. Lead sampling results are provided in Table B-2 and locations are shown on Figure B-2.

## **2.4. Cottage 7 UST Search and Soil Investigation**

### **2.4.1. Purpose and General Approach**

During the February 2021 EE/CA investigation, VHB identified a fuel tank level gauge and suspected fuel lines in the basement at Cottage 7. At the time, JJBA traced the fuel lines to the exterior of Cottage 7 but lost the signal beneath the concrete pad that supports several air conditioning units. Further investigation of the surrounding area was limited by the presence of dense vegetation and debris. Following vegetation clearing in November 2021, a UST was confirmed, and VHB conducted a limited soil investigation in the surrounding area to evaluate potential contamination.

### **2.4.2. Methods**

JJBA connected to the suspected fuel lines in the basement at Cottage 7 and traced a signal to beneath the air conditioning units, which continued weakly around the northern and eastern sides of Cottage 7. On-Site excavated intermittently along the signal to visually confirm a UST and buried pipe. On-Site excavated around the UST, to the extent possible, to inspect its integrity and to identify evidence of potential soil contamination.

On-Site advanced three soil borings (Figure B-3): SC-C7-01 and SC-C7-02 extended to 15 ft bgs and SC-C7-03 to 10 ft bgs. SC-C7-01 and SC-07-02 were positioned as close to the UST as Site constraints allowed, approximately 5 to 6 ft north. SC-C7-03 was advanced approximately 30 ft downhill of the UST. VHB logged soil types, in addition to observations of odors or staining, and PID readings on soil boring logs (Attachment B-2). In accordance with the SAP, because no petroleum impacts were observed, VHB collected one soil sample from each boring at depths just below the estimated bottom of the UST, at 5 ft bgs in the two borings near the UST and at 6 ft bgs from SC-C7-03.

These discrete subsurface soil samples were shipped to ALS Global for analysis of:

- VOCs by EPA Method 8260C



- PAHs by EPA Method 8270D

On-Site installed a temporary piezometer at SC-C7-01. As VHB did not identify groundwater at this location after 24 hours, a monitoring well was not installed.

### **2.4.3. Results**

Northeast of Cottage 7, a cylindrical, horizontal steel UST was identified at less than 2 ft bgs, with the eastern end attached to a steel pipe at less than 2 ft bgs. The steel pipe extended around the side of Cottage 7 to a possible remote fill port. Excavation around the UST was limited in area and depth (about 3 ft bgs) due to the overlying concrete pad supporting the air conditioning units, various utilities, and a concrete sidewalk. The top of the UST was rusted through at the fill piping; however, visual, olfactory, or PID evidence of soil contamination was not observed in the soil surrounding the UST or piping. The rusted hole was large enough to insert a camera into the UST, which VHB visually confirmed was empty and estimated its size at approximately 3 ft in diameter and 5 ft in length.

VHB did not observe visual, olfactory, or PID evidence of contamination in soil cores collected from SC-C7-01 through SC-C7-03. Additionally, VOCs were not detected above laboratory method detection limits (MDLs) at the samples collected from these borings (Table B-3A). Multiple PAHs were detected at the two borings advanced nearest to the UST at depths near the bottom of the tank. Reported concentrations of benzo(a)pyrene exceeded PALs in SC-C7-01-5 and SC-C7-02-5. Additionally, reported concentrations of benz(a)anthracene and dibenz(a,h)anthracene exceeded PALs in SC-C7-02-5. PAHs were not detected above laboratory MDLs at SC-C7-03-6.6, downhill of the UST (Table B-3B). Benz(a)anthracene, benzo(a)pyrene, and dibenz(a,h)anthracene have been retained for further evaluation in the risk assessments.

## **2.5. Catchment Basin Buried Items Search**

### **2.5.1. Purpose and General Approach**

In February 2021, JJBA identified GPR evidence of a buried item in the lower Catchment Basin area. JJBA estimated the item to be approximately 5 feet by 22 feet at a depth of about 2 feet. As the February 2021 geophysical investigation was limited by dense vegetation in the southern half of the lower Catchment Basin area, in November 2021 the entire area was cleared to the extent practical, and a geophysical investigation was repeated to locate the original item and to search for other evidence of buried items.

Since the February 2021 investigation, NPS received anecdotal evidence that pesticides were historically stored at the lower Catchment Basin area. To evaluate potential pesticide



contamination of surface soil, VHB conducted surface soil sampling by ISM within the lower Catchment Basin area.

### **2.5.2. Methods**

CBIA cleared the lower Catchment Basin area of vegetation to the extent practical. Some portions of the area remained inaccessible to geophysical investigation and surface soil sampling activities due to the presence of storage containers (for dry goods and building materials), trailers, piled stone, and other materials.

Using GPR and EMI, JJBA located utilities and searched for evidence of buried items within the cleared portions of the lower Catchment Basin area. Using an excavator and hand tools, On-Site excavated soil above and around the buried item.

VHB also identified two approximately 0.25-acre surface soil DUs, IA-CB-01 and IA-CB-02, within the lower Catchment Basin area. IA-CB-01 was in the northern half of the lower Catchment Basin area and encompassed the buried item; IA-CB-01 was situated within the southern half of the area (Figure B-4). VHB collected surface soil samples in general accordance with the procedures described in Section 2.1.2.

ALS Global processed ISM samples by drying, disaggregating, sieving, and subsampling. Following ISM processing, surface soil samples were analyzed by the following method:

- Organochlorine pesticides by EPA Method 8081A

### **2.5.3. Results**

On-Site removed soil from most of the surface of the suspected buried item and past its edges in certain areas. The item was a single uneven and unfinished mass of concrete. Visual evidence suggested the concrete was not part of a slab or other constructed item but, rather, discarded. Based on the large concrete Catchment Basin nearby, it is likely the concrete was excess and dumped in a low spot when not needed. Because the Catchment Basin is concrete, the material may be related to that construction. JJBA re-scanned the surface of the concrete with GPR and did not identify evidence of possible buried items beneath. VHB did not observe visual, olfactory, or PID evidence of potential contamination in or around the excavation.

Pesticides were not detected above laboratory MDLs in any of the replicate samples from IA-CB-01 and IA-CB-02 (Table B-4A).



## **2.6. Water Supply Well Search**

### ***2.6.1. Purpose and General Approach***

Historical information identified since the February 2021 EE/CA investigation indicated the possible presence of two bedrock water supply wells at the Resort. VHB attempted to locate and sample these wells to evaluate potential groundwater contamination by Resort COCs and PCOPCs, and associated risks.

### ***2.6.2. Methods***

VHB discussed the possible bedrock water supply wells with CBIA representatives familiar with the Resort history.

### ***2.6.3. Results***

CBIA representatives identified and cleared a path to one former bedrock water supply well to the east of the Engineering and Maintenance Area (Figure 1 of Attachment B-4). According to the representatives, the identified well was low yielding and was, therefore, abandoned shortly after installation by filling it with grout. VHB inspected the well and confirmed that the riser pipe had been cut off and grouted to the ground surface. CBIA representatives were not aware of the current or former existence of any other water supply wells at the Resort, and VHB was unable to identify other evidence of a second well.

During discussions, CBIA representatives informed VHB of the presence and locations of two historical hand-dug wells at the Resort, designated herein as Dug Well 1 and Dug Well 2 (Figure B-5). The wells are believed to be older than the Resort. CBIA representatives reported that the wells were covered before the 2017 hurricanes and not in use. During the November 2021 investigation, the area around the wells was overgrown and scattered with debris, and the wells were not completely covered. Due to their location downgradient from Area 2, VHB collected groundwater samples from both wells as described in Section 2.1.3.

## **2.7. Area 2 Subsurface Soil Investigation**

### ***2.7.1. Purpose and General Approach for Investigating Soil***

During the February 2021 EE/CA investigation, VHB discovered olfactory and PID evidence of petroleum contamination at boring locations near the ASTs and fuel dispenser in Area 2. VHB was not prepared to collect analytical samples at the time and further drilling was limited by reports of buried utilities in locations that had not been cleared. Based on these findings and a



review of documentation pertaining to a 2010 diesel release, VHB conducted additional subsurface investigation to characterize and delineate potential residual contamination.

### ***2.7.2. Methods for Investigating Soil***

Before drilling activities, JJBA located and marked utilities within the anticipated drilling area. As the investigation proceeded outside of the initially anticipated area, JJBA expanded the utility mark-out accordingly.

VHB selected initial boring locations, in accordance with the SAP, within the previously identified diesel release area near the ASTs and the petroleum dispenser pump. Subsequent boring locations were selected to provide areal coverage of the release area, delineate observed evidence of contamination, and investigate potential preferential contaminant migration pathways, including utility trenches and concrete slab aggregate base/subbase materials.

All of the Area 2 borings were advanced to refusal or a maximum of 20 ft bgs because water-bearing zones were found above this depth, as shown on boring logs in Attachment B-2. VHB sampled the soil cores using the general discrete soil sampling procedures described in Section 2.1.2 and in general accordance with the SAP, as follows:

- At borings where evidence of contamination was not observed (9 of 17 locations), a sample was collected from the bottom of the core.
- At borings where evidence of contamination was observed in a single interval (3 of 17 locations), a sample was collected from the interval with the highest PID response and from approximately 1 foot below evidence of contamination.
- At borings where evidence of contamination was observed in multiple intervals (2 of 17 locations), samples were collected from the two intervals with the highest PID response and the sample from the interval with the lower response was held at the laboratory.

At the remaining 2 of 17 boring locations, a single contaminated interval was identified and the highest PID response was observed at the bottom of the core. At these locations, a single sample was collected from the bottom interval.

These discrete subsurface soil samples were shipped to ALS Global for analysis of:

- VOCs by EPA Method 8260C
- PAHs by EPA Method 8270D
- Lead by EPA Method 6020A



### **2.7.3. Results of the Soil Investigation**

Evidence of petroleum contamination, including petroleum odors, streaks or patches of visibly impacted soil, and/or high PID responses (greater than 10 parts per million by volume, or ppmV), was observed in some soil cores. As noted in the boring logs in Attachment B-2, the PID appeared to malfunction occasionally in the high humidity and heat; therefore, VHB examined soil for supporting evidence, such as odors and blue-grey staining, of petroleum impacts. Affected soil was observed below 3 ft bgs, and impacts typically continued downward to refusal on bedrock. Depth to bedrock is 10 ft or less along the slope between the ASTs and the fuel dispenser pump, and approximately 20 ft along the road adjacent to the fuel dispenser pump.

Odors, stains, or high PID responses were noted in eight boring locations in Area 2:

- Near the 2010 diesel release at SC-2-14
- In three borings along the slope between the ASTs and the fuel dispenser pump, SC-2-11, SC-2-10, and SC-2-12
- At four boring locations located farther downslope and along the roadway: SC-2-06, SC-2-07, SC-2-09, and SC-2-17

Evidence of contamination was not observed at borings installed along the western portion of the upper diesel AST concrete pad (SC-2-16 and SC-2-14), along the eastern portion of the emergency generator building slab (SC-2-18), along an electrical trench heading northwest through the investigation area, or along a utility trench within the roadway past SC-2-17 (SC-2-19 and SC-2-20).

Low concentrations of VOCs (Table B-3A) and PAHs (Table B-3B) were detected in several samples, generally corresponding to observed evidence of contamination. The reported concentrations of VOCs at all locations and PAHs at all but one location were less than PALs. The reported concentration of acenaphthene at SC-2-12-8 (0.288 milligrams per kilogram, or mg/kg) exceeded the PAL of 0.25 mg/kg. Boring SC-2-12 was located adjacent to the lower diesel AST slab and the sample was collected from the interval immediately above refusal on presumed bedrock where blue-gray staining and a PID response above 100 ppmV were present.

Reported concentrations of lead (Table B-B-3C) ranged between 0.69 mg/kg and 27.2 mg/kg and do not appear to be correlated with evidence of petroleum contamination. As evidence of a gasoline release (e.g., the presence of benzene) at the Site has not been identified, lead is not expected to be a co-contaminant. While lead concentrations in 17 of the 21 samples exceeded the PAL of 0.94 mg/kg, the concentrations in all but three samples were less than 3 mg/kg.





Reported concentrations of lead near refusal depth at SC-2-06, SC-2-18, and SC-2-19 were 5.3, 11, and 27.2 mg/kg, respectively. The depths and scattered areal distribution of the results do not indicate they are related to petroleum contamination. These concentrations are less than or similar to surface soil lead concentrations detected in multiple DUs during the February 2021 EE/CA investigations. The Risk Assessment performed for the September 2021 EE/CA concluded that these concentrations do not result in unacceptable risks to human health or the environment.

## **2.8. Groundwater Investigation**

### ***2.8.1. Purpose and General Approach for Investigating Groundwater***

The February 2021 EE/CA investigation was conducted during the dry season and evidence of groundwater was not observed above bedrock in Area 2 or Area 3. To evaluate whether groundwater is seasonally present above bedrock and a medium for contaminant transport, the November 2021 investigation was scheduled for the wet season. VHB revisited the previously installed well in Area 3 and installed temporary piezometers at boring locations in Area 1, Area 2, and at Cottage 7. Where groundwater was identified, monitoring wells were installed and sampled.

Historical monitoring well MW-1, in Area 2, was identified in the EE/CA Report as a potential conduit for subsurface/groundwater contamination. Under the direction of VHB, On-Site closed the well in November 2021.

### ***2.8.2. Methods for Investigating Groundwater***

VHB checked MW-3-01, which was previously installed at the Area 3 landfill, for water during the Site Reconnaissance on October 6, 2021, and during the field work on November 8, 2021. In October, the well appeared to contain 1 to 2 inches of water, but it was dry in November.

As discussed in Section 2.1.3, before installing monitoring wells in other areas, On-Site installed temporary piezometers at boring locations considered mostly likely to contain groundwater and important for potential groundwater contamination characterization. Temporary piezometers were installed in Area 1 at SC-1-01; in Area 2 at SC-2-06, SC-2-07, and SC-2-09; and near Cottage 7 at SC-C7-01. Piezometers were checked for the presence of groundwater at least 24 hours following their installation. Groundwater was only observed in Area 2.

On-Site installed three initial monitoring wells, MW-2-06, MW-2-07, and MW-2-09, at boring locations with evidence of petroleum contamination, downgradient of the Area 2 ASTs, as shown on Figure B-5. On-Site installed two additional monitoring wells, MW-2-22 and MW-2-





21, farther downgradient from Area 2 to evaluate potential contaminant migration and discharge to the ocean. Well locations were selected based on preliminary water level data in Area 2 and an understanding of Site geology and topography. VHB also sampled the two hand-dug wells downgradient from Area 2, described in Section 2.6.3. VHB followed the general groundwater monitoring well installation procedures discussed in Section 2.1.3. Monitoring well construction logs are included on soil boring logs in Attachment B-2.

VHB performed synoptic groundwater elevation measurement rounds on November 18, 2021, and January 12, 2022.

VHB collected groundwater samples from all five monitoring wells and the two dug wells using procedures described in Section 2.1.3 on November 17 and 18, 2021. Some analyses were not performed because the samples were delayed during shipping and exceeded hold times. NPS chose to analyze some of the samples despite the hold times to offset the risk of groundwater not being present during future sampling events. On January 12 and 13, 2022, VHB returned to the Resort and collected additional groundwater samples. Samples from the monitoring wells MW-2-06, MW-2-07, and MW-2-09 were analyzed for the petroleum related PCOPCs, namely:

- VOCs by EPA Method 8260C
- PAHs by EPA Method 8270D<sup>2</sup>
- Lead by EPA Method 6020A

As MW-2-21 and MW-2-22 and the two dug wells are generally downgradient of Area 2, NPS expanded the analyte list to also include the following COCs previously identified in soil in Area 2:

- Organochlorine pesticides by EPA Method 8081A
- Arsenic and barium by EPA Method 6020A

Text Table 2.8.2 summarizes which samples were analyzed during each mobilization.

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<sup>2</sup> A laboratory error resulted in the PAH samples being analyzed for PAHs without using an additional method, Simulated Ion Method, to detect low level PAHs. The laboratory stated they would reanalyze the extract, but did not. The risk assessment proceeded using the initial results.



Text Table 2.8.2 Summary of Groundwater Sample Dates					
Well	VOCs	PAHs	Pesticides	Lead	Arsenic, Barium
MW-2-06	January (Jan.)	Nov. & Jan.	---	Nov.	---
MW-2-07	November (Nov.) & Jan.	Nov. & Jan.	---	Nov.	---
MW-2-09	Nov. & Jan.	Nov. & Jan.	---	Nov.	---
MW-2-21	Jan.	Jan.	Jan.	Nov. & Jan.	Nov. & Jan.
MW-2-22	Jan.	Jan.	Jan.	Nov.	Nov.
Dug Well 1	Jan.	Jan.	Jan.	Jan.	Jan.
Dug Well 2	Jan.	Jan.	Jan.	Jan.	Jan.

### 2.8.3. Results of the Groundwater Investigation

The Area 3 landfill monitoring well, MW-3-01, was nearly or completely dry during both monitoring events in the 2021 wet season and it could not, therefore, be sampled. Consequently, groundwater is not considered to be a significant exposure pathway or migration mechanism through the landfill.

Groundwater was present in all of the Area 2 monitoring wells and both dug wells during groundwater monitoring events in November 2021 and January 2022. Based on groundwater elevation measurements, overburden (i.e., above bedrock) groundwater is expected to generally flow from the AST area to the northwest along a buried valley towards the former gift shop and, beyond that, to Caneel Bay. During both events, the groundwater elevation at MW-2-07 was higher than MW-2-06, despite it appearing to be located further downgradient. This apparent anomaly may be attributable to the proximity of MW-2-07 to the drainage ditch that receives frequent discharge (inferred to be brine) from the desalination plant, which may be infiltrating into the soil. This is supported by specific conductance measurements (a measure of water salinity) made during groundwater sampling activities showing high conductance at MW-2-07. Measurements at the wells nearest to the drainage ditch (MW-2-06, MW-2-07, MW-2-09, and Dug Well 1) were within the expected range for seawater while measurements at wells farther from the ditch but closer to Caneel Bay (MW-2-21, MW-2-22, and Dug Well 2) were lower. Groundwater elevations generally dropped between November and January, with the greatest change nearest to the ASTs (1.14 feet at MW-2-06) and decreasing changes towards Caneel Bay (no decrease at Dug Well 2). Groundwater elevation monitoring data are provided in Table B-5.

Low concentrations of VOCs were detected below PALs in all groundwater samples. The only PAL exceedance was reported at MW-2-09 in November 2021, where the concentration of chloroform (0.55 micrograms per liter, or µg/L) slightly exceeded the PAL of 0.22 µg/L. Chloroform was not detected at MW-2-09 in January 2022. Groundwater VOC results are provided in Table B-6A.



In November 2021, low concentrations of PAHs were detected at wells MW-2-06 and MW-2-07, downgradient of the fuel dispenser and ASTs. At MW-2-06, PAH concentrations were below PALs. At MW-2-07, three PAH concentrations were above respective PALs:

- anthracene estimated at 0.028 µg/L (PAL 0.012 µg/L),
- naphthalene at 0.13 µg/L (PAL 0.12 µg/L), and
- pyrene estimated at 0.065 µg/L (PAL 0.025 µg/L).

For samples collected in January 2022, the laboratory erroneously used an extraction method that resulted in MDLs that exceeded the detected PAH concentrations in November and the requirements of the data quality objectives. Naphthalene was detected with estimated concentrations in MW-2-07 (1 µg/L), MW-2-09 (1 µg/L), and Dug Well 2 (1.1 µg/L). Groundwater PAH results are summarized in Table B-6B.

Pesticides were not detected above PALs or laboratory MDLs in any groundwater sample, as shown in Table B-6D.

Lead was not detected above its PAL or laboratory MDLs in any groundwater sample, as shown in Table B-6C.

Arsenic was detected at estimated concentrations of 6.2 µg/L in Dug Well 1 and 2.3 µg/L in Dug Well 2, which exceed the PAL of 0.052 µg/L, as shown in Table B-6C. Arsenic was not detected above the laboratory MDL of 1.1 µg/L in nearby wells MW-2-21 or MW-2-22. As both dug wells are cased with stone and open to the air, the elevated concentrations of arsenic (compared to MW-2-21 and MW-2-22) may be the result of surface runoff/infiltration and/or atmospheric deposition.

Barium was detected in all groundwater samples from MW-2-21, MW-2-22, Dug Well 1, and Dug Well 2 in excess of the PAL of 3.9 µg/L, as shown in Table B-6C. Reported concentrations ranged from 220 µg/L to 400 µg/L. For comparison, the concentration of barium in the sample collected from MW-01 in February 2021 was 100 µg/L; however, due to the poor condition and construction of this well the sample was suspected to not be representative of groundwater.

The analytes in groundwater that exceeded their PALs, including chloroform, anthracene, naphthalene, pyrene, arsenic, and barium, will be retained for the risk assessment.

## **2.9. Area 1 Waste Storage Subsurface Investigation**

### **2.9.1. Purpose and General Approach**

Documents provided to NPS since the February 2021 EE/CA investigation reported the past storage of materials, including 55-gallon drums with unknown substances, leaking transformers, and waste paint, in the vicinity of the wastewater treatment plant and Area 1. Surface soil at the



storage area was investigated in the February 2021 EE/CA investigation and contained no COCs except, tentatively, arsenic. In response to a report that wastes may be buried at Area 1, NPS used geophysical methods in November 2021 to search for possible buried items. Subsurface soil sampling was conducted along the inferred downgradient edge of the gravel pad to investigate potential subsurface soil and groundwater contamination.

### **2.9.2. Methods**

After clearing by CBIA, JJBA used GPR and EMI to search the surface of the gravel pad for evidence of buried items or other anomalies.

Based on Site constraints, VHB identified three proposed boring locations along the western, or inferred downgradient, edge of the gravel pad. Before drilling, JJBA located and marked subsurface utilities in vicinity of each proposed location. On-Site advanced three soil borings, SC-1-01, SC-1-02, and SC-1-03 (Figure B-4), between the gravel pad and wastewater treatment plant.

Soil boring and sampling was performed according to methods described in Section 2.1.2. As no evidence of contamination was observed in the Area 1 borings, in accordance with the SAP, two samples were collected from each boring. VHB collected one sample from near the top and another sample from the bottom of each boring.

These six discrete subsurface soil samples and one duplicate were shipped to ALS Global for analysis of:

- VOCs by EPA Method 8260C
- PAHs by EPA Method 8270D
- Organochlorine pesticides by EPA Method 8081A
- PCBs by EPA Method 8082A
- Lead by EPA Method 6020A<sup>3</sup>

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<sup>3</sup> Although the SAP indicated the metals list should be the same as the EE/CA investigation, the laboratory interpreted the Chain of Custody as only requiring lead. The error was discovered only after the samples had been disposed of. Based on the absence of other contaminants in subsurface soil samples and in surface soil samples, this error is not considered a data gap.



On-Site installed a temporary piezometer at SC-1-01. No groundwater collected in the piezometer after 24 hours, and a monitoring well was not installed.

### **2.9.3. Results**

JJBA did not identify evidence of buried items or other anomalies during the geophysical investigation of Area 1.

Bedrock was encountered at approximately 4 ft bgs during drilling at SC-1-02 and SC-1-03, which were between the toe of the slope below the gravel pad and a wastewater treatment plant basin. At SC-1-01, bedrock was encountered at 17 ft bgs. Visual, olfactory, or PID evidence of contamination was not identified in the cores collected from the Area 1 borings.

Reported concentrations of VOCs (Table B-3A), PAHs (Table B-3B), and PCBs (Table B-3E) were below respective PALs in the six subsurface soil samples collected from Area 1. Reported concentrations of the pesticides dichlorodiphenyltrichloroethane (DDT) and its metabolites (dichlorodiphenyldichloroethane, or DDD, and dichlorodiphenyldichloroethylene, or DDE) exceeded PALs in the shallow soil sample collected from SC-1-01 (SC-1-01-0.5) but were less than the RG developed for DDT-total during the EE/CA (Table B-3D). No other pesticides were detected above laboratory MDLs in any of the Area 1 samples.

All lead results except one were above the PAL of 0.94 mg/kg, with most results below 5 mg/kg and one result of 25.3 mg/kg. As discussed for the lead in soil results at Area 2, the Risk Assessment performed for the September 2021 EE/CA concluded that these concentrations do not result in unacceptable risks to human health or the environment.

## **2.10. Background and Potential Clean Fill Surface Soil Investigation**

### **2.10.1. Purpose and General Approach**

During the February 2021 EE/CA investigation, surface soil concentrations of arsenic in excess of PALs were present in samples collected across the Resort, including in reference DUs. To supplement the existing arsenic dataset and evaluate the background/reference value, VHB identified and sampled two additional reference DUs at the Resort.

To evaluate arsenic concentrations in potential clean fill sources available in the USVI, VHB contacted a clean fill supplier, Sleepy's Trucking, and collected an ISM sample from a stockpile located in their yard on St. Thomas. VHB was unable to identify the original source of the soil.

### **2.10.2. Methods**

VHB identified areas of the Resort to be representative of background conditions that were free of debris, relatively clear of dense vegetation, and distant from known sources of contamination,



disturbances, and structures. VHB measured and staked out two approximately 0.25-acre DUs within these areas, IA-REF-03 and IA-REF-04 (Figure B-6). DU boundaries were recorded with a sub-meter global positioning system (GPS) unit. Three ISM replicate samples (designated as A, B, and C) were collected from each DU, as described in in Section 2.1.1.

VHB defined a single DU, IA-REF-05, across the surface of the clean fill stockpile (estimated to be less than 100 cubic yards) at Sleepy's Trucking on St. Thomas. Three ISM replicate samples were collected, as described in in Section 2.1.1.

ALS Global processed ISM samples by drying, disaggregating, sieving, and subsampling. Following ISM processing, surface soil samples were analyzed for arsenic using the following method:

- Arsenic by EPA Method 6020A

### **2.10.3. Results**

Reported arsenic concentrations in replicate samples for IA-REF-03 and IA-REF-04 were 1.8 mg/kg to 3.1 mg/kg (Table B-4B), with all but one replicate exceeding the 2 mg/kg background/reference value previously derived from the February 2021 results.

Reported arsenic concentration in replicate samples from the clean fill stockpile (IA-REF-05) ranged from 3.4 mg/kg to 4.5 mg/kg, exceeding the previous background/reference value and replicate concentrations for reference DUs at the Resort.

These results suggest that the previously derived background/reference value is not adequately representative of background conditions at the Resort or clean fill available in the USVI. These data will be used to evaluate the background/reference value and Removal Goal for the EE/CA.

## **3. Conclusions**

The purpose of this EE/CA Addendum field investigation was to provide sufficient data to assess the nature and extent of contamination at the Site and support an assessment of human health and ecological risks. NPS will use data collected during this field investigation to decide if removal actions are needed to address unacceptable risks and, if warranted, identify and evaluate removal action alternatives. The field investigation provided data to address the investigation questions identified in the SAP:

1. Uncertain items

**Summary: The investigation answered data gaps related to each uncertain item. Asbestos-containing material and lead-based paint are present. Much of the**



**identified asbestos-containing material is exposed to the elements, making it likely to weather and become friable over time. Lead-based paint does not appear to present a threat of a release to the environment at this time. An empty, closed UST is present outside Cottage 7. Evidence of pesticide storage or releases at the Catchment Basin was not detected. One deep water supply well has been closed and no evidence of the other supply well was found.**

E.1.1: Where is asbestos-containing material present and exposed to the environment?

- The investigation identified asbestos-containing material currently exposed to the environment at several buildings (primarily constructed around 1960), in hurricane debris on the ground, and in buried or partially buried piping. Although some of these materials are degraded, friable asbestos was not encountered at the time of the EE/CA Addendum investigation. Nevertheless, much of the asbestos-containing material is exposed to the elements, and weather conditions at the Site may cause the asbestos fibers in the ACM to migrate or be released. In addition, routine activities such as landscape maintenance (e.g., mowing the grass) may disturb ACM in hurricane debris on the ground surface causing asbestos fibers to be released to the air. No materials that were fully contained inside buildings or under layers of other materials were sampled, and the total amount of asbestos containing material at the Resort cannot be estimated from the investigation results.

E.1.2: Where is lead-based paint present and exposed to the environment?

- The investigation identified peeling paint on a column (similar to other columns) at the Caneel Beach units with a lead concentration of 1.9%. Based on the limited area of soil likely to be affected by peeling paint, the small surface area of peeling paint on the columns, and the relatively low concentration of lead, this material is unlikely to present a threat of a release to the environment.

D.1.1: Is a UST present outside Cottage 7?

- The presence of an empty steel UST and associated piping was confirmed outside Cottage 7.

D.1.2: Does the buried item near the Catchment Basin present a threat of release of hazardous substances or petroleum?

- The buried item was determined to be a rough concrete surface, which may be discarded concrete. Evidence of hazardous substances was not identified.





D.1.3: Are the water supply wells present, operational, and accessible for sampling?

- One former bedrock water supply well was identified at the Resort; the well has been abandoned in-place by grouting the casing and, therefore, is not operational or accessible for sampling. Evidence of a second bedrock water supply well was not identified. Two existing hand-dug wells, reported to predate the development of the Resort, were identified. While there are no known current or past uses of the groundwater, samples were collected from each well.

2. Residual aboveground storage tank (AST) and underground storage tank (UST) contamination

**Summary: There is evidence of residual contamination in subsurface soil and groundwater near the historical AST release in Area 2 and to subsurface soil near the UST at Cottage 7. Detections of PCOPCs (PAHs) above PALs in soil are limited in area and deeper than 4 ft bgs.**

E.2.1: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near Cottage 7?

- PAH concentrations in two soil samples collected from 5 ft bgs within approximately 6 feet of the UST at Cottage 7 exceed the PALs. No PAHs were reported in the soil sample collected approximately 30 feet to the north-northeast. No VOCs were detected above laboratory MDLs in samples collected near the Cottage 7 UST.

E.2.2: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near the AST and fuel dispenser pump in Area 2?

- Low concentrations of VOCs and PAHs were detected in several subsurface soil samples collected near the AST and fuel dispenser; detections generally correspond to visual, olfactory, and PID evidence of petroleum contamination. The reported concentrations of VOCs at all locations and PAHs at all but one location were less than PALs.

D.2.1: Do concentrations of PCOPCs related to the UST at Cottage 7 pose a risk to human health or the environment?

- PAH concentrations in two soil samples within 6 ft of the UST were above PALs, including benzo(a)pyrene at SC-C7-01-5; and benz(a)anthracene, benzo(a)pyrene, and dibenz(a,h)anthracene at SC-C7-02-5. These PCOPCs will be evaluated in the risk assessments.





D.2.2: Do concentrations of PCOPCs related to the AST and fuel dispenser pump in Area 2 pose a risk to human health or the environment?

- The concentration of one PAH (acenaphthene in SC-2-12-8) was slightly greater than the PAL. This PCOPC will be evaluated in the risk assessments.

3. Arsenic background and clean fill values

**Summary: Arsenic concentrations in reference areas and potential clean fill exceeded previous reference area concentrations and the RG previously derived in the EE/CA.**

E.3.1: What is a representative background arsenic concentration in Site surface soil?

- Sufficient background soil samples have been collected in the February and November 2021 EE/CA investigations to evaluate Site surface soil background concentrations of arsenic.

D.3.1: Are arsenic concentrations in the identified clean fill source less than Site surface soil background concentrations and acceptable risk-based concentrations?

- Arsenic concentrations in an identified clean fill source exceed the previously derived RG of 2.0 mg/kg but are similar to the concentrations reported in samples collected both as background and from investigated areas of the Resort.

4. Possible Migration of Contaminants in Groundwater

**Summary: Groundwater was present within and downgradient of Area 2 and is inferred to flow towards Caneel Bay. Evidence of significant migration of PCOPCs in groundwater from the AST area was not identified. Concentrations of PAHs, one VOC, barium, and arsenic in wells near the ocean were above PALs and will be evaluated in the risk assessment.**

D.4.1: Is sufficient groundwater present in soil above bedrock to collect samples in the wet season?

- Groundwater was present above bedrock in Area 2. Groundwater samples were collected from five monitoring wells and two existing dug wells.

D.4.2: Are concentrations of PCOPCs (metals, PCBs, and pesticides) present in Site groundwater at the landfill at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?



- Water was not present in the monitoring well installed in the landfill in Area 3, suggesting that groundwater is not a complete exposure pathway in this area.

D.4.3: Are concentrations of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Cottage 7 UST and Area 2 AST and fuel dispenser pump at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- Concentrations of PAHs (anthracene, naphthalene, and pyrene) in groundwater at three wells within and downgradient from Area 2 exceeded PALs. These PCOPCs will be evaluated in the risk assessments.
- The concentration of one VOC (chloroform) at one well exceeded the PAL during one event (the result was not repeated in the subsequent analysis). This PCOPC will be evaluated in the risk assessment.
- Concentrations of barium at four wells downgradient from Area 2 exceeded the PAL. This PCOPC will be evaluated in the risk assessment.
- Concentrations of arsenic at the two dug wells downgradient from Area 2 exceeded the PAL. This PCOPC will be evaluated in the risk assessment.
- Groundwater was not identified above bedrock near the Cottage 7 UST during the rainy season.

D.4.4: Are concentrations of PCOPCs (VOCs, PAHs, metals, and pesticides) present in water supply groundwater at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- No intact water supply wells were found at the Resort.

D.4.5: Are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in Site groundwater downgradient of the waste storage at Area 1 at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- Groundwater was not identified above bedrock at Area 1 in the rainy season.

E.4.1: What is the extent of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Area 2 AST and fuel dispenser pump?

- PAHs were detected in groundwater near the Area 2 ASTs and exceeded PALs at one well: MW-2-07. Estimated concentrations of naphthalene were reported higher than the PAL at two other wells: MW-2-09 and Dug Well 2.



- Low concentrations of VOCs were detected in all groundwater samples; however, the concentration of one VOC (chloroform) exceeded the PAL at only one well: MW-2-09. Chloroform was not detected at MW-2-09 during subsequent sampling.
- Barium was detected at concentrations exceeding the PAL in four wells downgradient of Area 2. Other groundwater samples were not analyzed for barium.
- Arsenic was detected at concentrations exceeding the PAL at Dug Well 1 and Dug Well 2. Arsenic was not detected above laboratory MDLs at nearby monitoring wells.

5. Possible Waste Storage at the Catchment Basin and Area 1

**Summary: NPS did not find evidence to suggest that contamination is present in these areas that may pose a risk to human health or the environment.**

D.5.1: Do concentrations of pesticides present in surface soil near the Catchment Basin exceed Site Removal Goals established by the EE/CA?

- Concentrations of pesticides in surface soil near the Catchment Basin do not exceed Site Removal Goals.

D.5.2: If there is evidence of contamination at the Catchment Basin buried item, are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- Evidence of contamination at the Catchment Basin buried item was not identified. The buried item appears to be discarded concrete.

D.5.3: Are PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil downgradient of the waste storage at Area 1 at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- VOCs, PAHs, and PCBs were not detected in subsurface soil at Area 1 above PALs.
- DDT and its metabolites exceeded PALs in one shallow subsurface soil sample, but concentrations were less than the RG developed for total DDT during the EE/CA.



## 4. References

- National Park Service (NPS). (2018, November). *NPS Protocol for the Selection and Use of Ecological Screening Values for Non-Radiological Analytes*. Revision 3.
- National Park Service. (2021a, September 16). Engineering Evaluation/Cost Analysis: Areas 1, 2, and 3 of the Caneel Bay Resort. Caneel Bay Resort Site, Virgin Islands National Park.
- National Park Service. (2021b, November 4). Sampling and Analysis Plan Addendum: Engineering Evaluation/Cost Analysis Site Investigation. Caneel Bay Resort Site, Virgin Islands National Park.
- United States Environmental Protection Agency (USEPA). (2010, March). National Primary Drinking Water Regulations Table of Regulated Drinking Water Contaminants. Retrieved from <http://www.epa.gov/your-drinking-water/table-regulated-drinking-water-contaminants>.
- . (2020b, July 24). *Vapor Intrusion Screening Levels (VISL) Calculator*. Retrieved February 2022, from [https://epa-visl.ornl.gov/cgi-bin/visl\\_search](https://epa-visl.ornl.gov/cgi-bin/visl_search)
- .(2021, November). EPA Region 9, Regional Screening Levels (RSLs). November. Retrieved from <http://www.epa.gov/region9/superfund/prg/>.
- Virgin Islands Rules and Regulations. 2014 (May 6). Title 12, Chapter 16, Underground Storage Tanks.



## FIGURES





↑

0150300600 Feet

Building (approximate)

Joint Compound

Positive Asbestos Sample

Caulk

Ceiling Tile

Glue

Pipe

Roof

Window Glazing

Caneel Bay Resort Site

VIIS, St. John, USVI

Source Info:  
Base map from ESRI/World Imagery (2017)

Positive Asbestos Containing Materials Results





- Lead Sample
- Building (approximate)

Caneel Bay Resort Site

VIIS, St. John, USVI

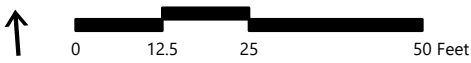
Source Info:  
Base map from ESRI/World Imagery (2017)

Lead-Based Paint Investigation Results





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- Investigation Location
- UST (Approximate)

Caneel Bay Resort Site

VIIS, St. John, USVI

Source Info:  
Base map from ESRI/World Imagery (2017)

Cottage 7 Investigation Locations





- Investigation Location
- Catchment Basin Buried Item
- November 2021 ISM Decision Unit
- February 2021 ISM Decision Unit

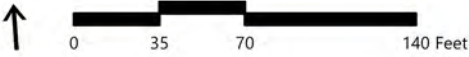
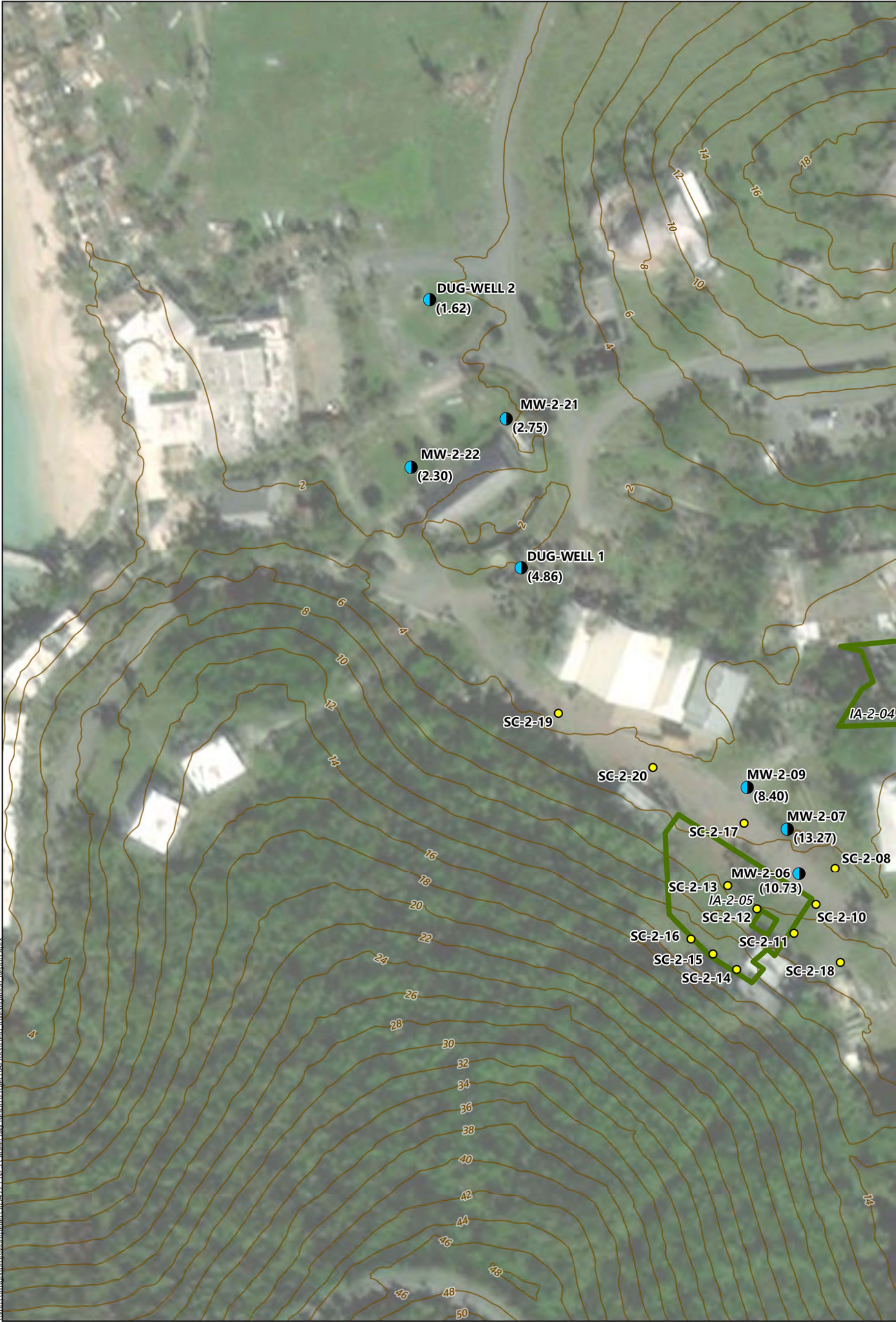
### Caneel Bay Resort Site

VIIS, St. John, USVI

Source Info:  
Base map from ESRI/World Imagery (2017)

### Catchment Basin and Area 1 Investigation Locations





Caneel Bay Resort Site

VIIS, St. John, USVI

- February 2021 ISM Decision Unit
- Investigation Location (with 1/12/2022 Groundwater Elevation, ft)
- Well
- Soil Boring
- Surface Contour (2 ft)

Source Info:  
Base map from ESRI/World Imagery (2017)

Area 2 Investigation Locations







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Caneel Bay Resort Site

VIIS, St. John, USVI

-  November 2021 ISM Decision Unit
-  February 2021 ISM Decision Unit

Source Info:  
Base map from ESRI/World Imagery (2017)

ISM Reference Decision Units





## TABLES



## TABLES

## Notes for all data tables

### Screening Levels

RSL	Residential Regional Screening Level (Soil), based on Carcinogenic Risk of 1E-6, Non-Cancer risk of 0.1
DPNR	United States Virgin Island Department of Natural Resources Cleanup Standard
NPS ESV	NPS Ecological Screening Value, 2018 values
MCL	Federal and Virgin Islands Maximum Contaminant Level (MCL) for drinking water
PAL	Project Action Limit, which is the lowest of the screening levels
PAL Exceedance =	##

### Analytical Acronyms

ISM	Incremental Screening Methodology
PAH	Polycyclic aromatic hydrocarbon
VOC	Volatile organic compound
CAS	Chemical Abstracts Service
MDL	Method Detection Limit
LOQ	Limit of Quantitation

### Data Qualifiers

*	Laboratory indicates that the sample may be biased low, this sample was not validated
J	Value is estimated
NJ	Analyte "tentatively identified" or is "presumptively" present and the associated numerical value is the estimated concentration.
U	Value is below the Laboratory MDL (Limit Shown)
R	Sample result rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

### Units

µg/L	Micrograms per liter
mg/kg	Milligrams per kilogram

### Other Acronyms/Symbols

ID	Identification
ftbgs	Feet below ground surface
--	= not analyzed for or no screening level

**Table B-1**  
**Summary of Asbestos Containing Materials Inspection**  
**Caneel Bay Site**

HA#	Functional Space	Material Description	Result	# of Samples	Highest % ACM	Analysis	
						PLM	TEM
R-01	East of Area 7	Roof Material Type I	Negative	2	<0.1% Chrysotile		X
R-02	East of Area 7	Ceiling Caulking on Roof Debris	Negative	2	None Detected		X
<b>R-03</b>	<b>East of Unit 86</b>	<b>Roof Material Type II</b>	<b>Positive</b>	<b>2</b>	<b>56.3% Chrysotile</b>		<b>X</b>
R-04	Southeast of Estate House	Roof Material Type I	Negative	2	None Detected		X
<b>R-05</b>	<b>Estate House</b>	<b>Roof Material Type II</b>	<b>Positive</b>	<b>2</b>	<b>53.2% Chrysotile</b>		<b>X</b>
R-06	Estate House	Roof Material Type I	Negative	2	None Detected		X
R-07	South of Teen Center	Roof Material Type I	Negative	2	None Detected		X
R-08	Hawksnest Units 106-129 Debris Pile (From Scott Beach)	Roof Material Type I	Negative	2	<0.1% Chrysotile		X
<b>R-09</b>	<b>Hawksnest Units 106-129 Debris Pile (From Scott Beach)</b>	<b>Roof Material Type II</b>	<b>Positive</b>	<b>2</b>	<b>51.7% Chrysotile</b>		<b>X</b>
R-10	Unit 61	Block Mortar	Negative	2	None Detected	X	
R-11	Unit 55	Plaster	Negative	3	None Detected	X	
R-12	Caneel Beach Units	Gypsum	Negative	2	None Detected	X	
R-13	Equator Restaurant	Roof Material Type I	Negative	2	None Detected		X
R-14	Equator Restaurant	Roof Material Type II	Negative	2	None Detected		X
R-15	East of Beach Terrace Restaurant	Vapor Barrier with Foam Roof	Negative	2	None Detected		X
<b>ES1</b>	<b>Rear of Estate Restaurant</b>	<b>Window Caulk</b>	<b>Positive</b>	<b>2</b>	<b>3.4% Anthophyllite 19.6% Chrysotile</b>		<b>X</b>
ES2	Rear of Estate Restaurant	Window Frame Packing	Negative	2	None Detected	X	
ES3	Rear of Estate Restaurant	Door Frame Caulk	Negative	2	None Detected		X
ES4	Estate Restaurant Roof	Old Generation Tar Paper	Negative	2	None Detected		X
ES5	Estate Restaurant Roof	New Generation Tar Paper	Negative	2	None Detected		X
ES6	Rear of Estate Restaurant	Gypsum Overhang	Negative	2	None Detected	X	
<b>ES7</b>	<b>Rear of Estate Restaurant</b>	<b>Overhang Joint Compound</b>	<b>Positive</b>	<b>2</b>	<b>3% Chrysotile</b>		<b>X</b>
ES8	Rear of Estate Restaurant	Block Mortar	Negative	2	None Detected	X	
ES9	Rear of Estate Restaurant	Ext. Masonry to Wood Overhang Caulk	Negative	2	None Detected		X
ES10	Estate House	Stove Mortar	Negative	2	None Detected	X	
ES11	Estate Event Room	Gypsum	Negative	2	None Detected	X	
ES12	Estate Event Room	Joint Compound	Negative	2	None Detected		X
TB1	Turtle Bay Units	Window Caulk	Negative	2	None Detected		X
<b>TB2</b>	<b>Turtle Bay Units</b>	<b>Window Screen Caulk</b>	<b>Positive</b>	<b>2</b>	<b>1.6% Chrysotile</b>		<b>X</b>
TB3	Turtle Bay Units	Bathroom Ceiling Gypsum	Negative	2	None Detected	X	
TB4	Turtle Bay Units	Joint Compound w/ TB3	Negative	2	None Detected		X
TB5	Turtle Bay Units	Soffit Gypsum	Negative	2	None Detected	X	

HA#	Functional Space	Material Description	Result	# of Samples	Highest % ACM	Analysis	
						PLM	TEM
TB6	Turtle Bay Units	Soffit Joint Compound	Negative	2	None Detected	X	
HN1	Hawksnest Units	Stone Mortar	Negative	2	None Detected	X	
<b>HN2</b>	<b>Hawksnest Units</b>	<b>Ext. Window Glazing</b>	<b>Positive</b>	<b>2</b>	<b>29.3% Chrysotile</b>		<b>X</b>
HN3	Hawksnest Restroom	Roof Tar Paper	Negative	2	None Detected		X
HN4	Hawksnest Massage Center	Roofing Under Cedar	Negative	2	None Detected		X
SB1	Scott Beach Units	Joint Compound	Negative	2	None Detected		X
SB2	Scott Beach Units	Gypsum	Negative	2	None Detected	X	
<b>SB3</b>	<b>Scott Beach Units</b>	<b>Black Ext. Door Caulk</b>	<b>Positive</b>	<b>2</b>	<b>16.0% Chrysotile</b>		<b>X</b>
SB4	Scott Beach Units	Ext. Door Caulk	Negative	2	None Detected		X
SB5	Scott Beach Units	Foundation Mortar	Negative	2	None Detected	X	
SB6	Scott Beach Units	Interior Plaster	Negative	7	None Detected	X	
SB7	Scott Beach Restroom	Roofing	Negative	2	None Detected		X
BP1	North of Scott Beach	Buried Pipe (Harder)	Negative	2	None Detected	X	
<b>BP2</b>	<b>North of Scott Beach</b>	<b>Buried Pipe (Softer)</b>	<b>Positive</b>	<b>2</b>	<b>15% Chrysotile 20% Crocidolite</b>	<b>X</b>	
<b>BP3</b>	<b>Wastewater Treatment Area</b>	<b>Buried Pipe</b>	<b>Positive</b>	<b>2</b>	<b>20% Chrysotile 12% Crocidolite</b>	<b>X</b>	
<b>BP4</b>	<b>West of Front Gate</b>	<b>Buried Pipe</b>	<b>Positive</b>	<b>2</b>	<b>15% Chrysotile 15% Crocidolite</b>	<b>X</b>	
<b>BP5</b>	<b>Maintenance/Pottery Area</b>	<b>Buried Pipe</b>	<b>Positive</b>	<b>2</b>	<b>15% Chrysotile 15% Crocidolite</b>	<b>X</b>	
<b>BP6</b>	<b>Upper Little Caneel Beach</b>	<b>Buried Pipe</b>	<b>Positive</b>	<b>2</b>	<b>15% Chrysotile 15% Crocidolite</b>	<b>X</b>	
CP1	Cottage Point Units	1'x1' Ceiling Tile	Negative	2	None Detected	X	
CP2	Cottage Point Units	Glue Dots w/ CP1	Negative	2	None Detected		X
CP3	Cottage Point Units	Wall Skim Coat Plaster	Negative	3	None Detected	X	
CP4	Cottage Point Units	Ext. Window Frame Caulk	Negative	2	None Detected		X
<b>CP5</b>	<b>Cottage Point Units</b>	<b>Glue Dots w/ Mirror</b>	<b>Positive</b>	<b>4</b>	<b>18.5% Chrysotile</b>		<b>X</b>
CP6	Cottage Point Units	Wall Plaster	Negative	9	None Detected	X	
CP7	Cottage Point Units	Older Gypsum	Negative	4	None Detected	X	
CP8	Cottage Point Units	Newer Gypsum	Negative	2	None Detected	X	
CP9	Cottage Point Units	Joint Compound	Negative	4	None Detected		X
CP10	Cottage Point Units	Vapor Barrier	Negative	4	None Detected		X
CP11	Cottage Point Units	Stone Mortar	Negative	2	None Detected	X	
<b>MB1</b>	<b>Maintenance Wood Shop + Engineer Office</b>	<b>12" White VCT</b>	<b>Positive</b>	<b>2</b>	<b>13.7% Chrysotile</b>		<b>X</b>
MB2	Maintenance Wood Shop + Engineer Office	12" White VCT Mastic	Non-ACM	2	<0.22% Chrysotile		X
<b>MB3</b>	<b>Maintenance Wood Shop</b>	<b>Window Glazing</b>	<b>Positive</b>	<b>2</b>	<b>4.0 % Anthophyllite</b>		<b>X</b>
MB4	Maintenance Wood Shop	Window Caulk	Negative	2	None Detected		X



HA#	Functional Space	Material Description	Result	# of Samples	Highest % ACM	Analysis	
						PLM	TEM
MB5	Maintenance Engineer Office + Warehouse	Ext. Door Caulk	Negative	2	None Detected		X
MB6	Maintenance Cafeteria Office	Gypsum	Negative	2	None Detected	X	
MB7	Maintenance Near Generator	Gypsum Stockpile	Negative	2	None Detected	X	
TPS1	Tennis Pro Shop	Roofing Under Cedar	Non-ACM	2	<0.1% Chrysotile		X
CB1	Caneel Beach Units 26-29	Stone Mortar	Negative	2	None Detected	X	
CB2	Caneel Beach Units 26-29	Brown Ceiling Glue Dot	Non-ACM	2	0.45% Chrysotile		X
CB3	Caneel Beach Units 26-29	1'x1' Ceiling Tile	Negative	2	None Detected	X	
<b>CB4</b>	<b>Caneel Beach Units 26-29</b>	<b>Dark Brown Ceiling Glue Dot</b>	<b>Positive</b>	<b>2</b>	<b>4.5% Chrysotile</b>		<b>X</b>
CB5	Caneel Beach Units 26-29	Mirror Glue Dot	Negative	2	None Detected		X
CB6	Caneel Beach Units 26-29	Wall Plaster	Negative	7	None Detected	X	
CB7	Caneel Beach Units 26-29	Skim Coat Plaster	Negative	7	None Detected	X	
CB8	Caneel Beach Units 26-29	Ext. Wall Caulk	Negative	2	None Detected		X
CB9	Caneel Beach Units 14-25	Stone Mortar	Negative	2	None Detected	X	
CB10	Caneel Beach Units 14-25	Newer Gypsum	Negative	2	None Detected	X	
CB11	Caneel Beach Units 14-25	Joint Compound w/ CB9	Negative	2	None Detected		X
CB12	Caneel Beach Units 14-25	Ext. Wall Caulk	Negative	2	None Detected		X
CB13	Caneel Beach Units 14-25	Older Gypsum	Negative	2	None Detected	X	
CB14	Caneel Beach Units 14-25	Older Gypsum Paper	Negative	2	None Detected	X	
CB15	Caneel Beach Units 14-25	Wall Plaster	Negative	7	None Detected	X	
<b>MBR1</b>	<b>Main Building Roof - North</b>	<b>Roofing</b>	<b>Positive</b>	<b>2</b>	<b>3.2 % Chrysotile</b>		<b>X</b>
MBR2	Main Building Roof - NE Dining Area	Roofing	Non-ACM	2	0.12% Chrysotile		X
MBR3	Main Building Roof - Over Kitchen	Flange Caulk	Negative	2	None Detected		X
MBR4	Main Building Roof	Fiberglass Insulation Jacket	Negative	2	None Detected		X
LCB1	Little Caneel Beach Units	Stone Mortar	Negative	2	None Detected	X	
LCB2	Little Caneel Beach Units	Ext. Louver Caulk	Negative	4	None Detected		X
LCB3	Little Caneel Beach Units	Brown Ceiling Glue Dot	Negative	3	None Detected		X
LCB4	Little Caneel Beach Units	Gypsum	Negative	3	None Detected	X	
LCB5	Little Caneel Beach Units	Wall Plaster	Negative	8	None Detected	X	
LCB6	Little Caneel Beach Units	Skim Coat Plaster	Negative	8	None Detected	X	
LCB7	Little Caneel Beach Units	1' Ceiling Tile	Negative	2	None Detected	X	
DS1	Dive Shop	Ext. Door Caulk	Negative	2	None Detected		X
PB1	Pump Building Adjacent to Main Building	New Generation Tar Paper	Negative	2	None Detected		X
DS2	Dive Shop	New Generation Tar Paper	Negative	2	None Detected		X
TS1	Taxi Stand	Roofing Under Cedar	Negative	2	None Detected		X
SMR1	Sugar Mill Restaurant	Roofing Under Cedar	Negative	2	None Detected		X
SMR2	Sugar Mill Restaurant	AC Unit Jacket	Negative	2	None Detected		X
FC1	Fitness Center	Ext. Door Caulk	Negative	2	None Detected		X

HA#	Functional Space	Material Description	Result	# of Samples	Highest % ACM	Analysis	
						PLM	TEM
GV1	Garden View Units	Ext. Door Caulk	Negative	2	None Detected		X
<b>GV2</b>	<b>Garden View Units</b>	<b>Ext. Window Caulk</b>	<b>Positive</b>	<b>2</b>	<b>1.9% Chrysotile</b>		<b>X</b>
GV3	Garden View Units	Roofing on Plywood	Negative	2	None Detected		X
GV4	Garden View Units	Wall Plaster	Negative	7	None Detected	X	
GV5	Garden View Units	Gypsum	Negative	2	None Detected	X	
GV6	Garden View Units	Joint Compound	Negative	2	None Detected		X
GBS1	Garden View Bus Stop	Tar Paper Roofing	Negative	2	None Detected		X
AS01	Wastewater Treatment Dump North	Soil	Negative	1	None Detected		x
AS02	Wastewater Treatment Dump South	Soil	Negative	1	None Detected		x
AS03	Scott's Beach East- Roof Debris	Soil	Negative	1	None Detected		x
AS04	Scott's Beach East- Roof Debris	Soil	Negative	1	None Detected		x

**Table B-2**  
**Summary of Lead Results in Building Materials**  
**Caneel Bay Site**

Location ID:			L01	L02	L03	L04	L05	L06	L07
Sample Date:			10/5/2021	10/5/2021	10/5/2021	10/5/2021	10/5/2021	10/5/2021	10/5/2021
Sample Description:			East of Area A7 - Ceiling White PT	East of A7 - Brown Soffit	SE of Teen Center - Exterior Trim	East of Estate House - Ceiling	SE of #92 - Ceiling Debris	Units 93-94 - Exterior Trim	Unit 61 - Exterior Paint
Analyte (% weight)	CAS	Screening Level							
Lead	7439-92-1	0.50%	<0.008%	<0.008%	<0.008%	<0.008%	<0.008%	<0.008%	0.47%

Location ID:			L08	L09	L10	L11	L12	L13	L14
Sample Date:			10/5/2021	11/15/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021	11/17/2021
Sample Description:			#55 - Gypsum Paint	Estate Restaurant - Yellow Paint on Bollard	Estate Restaurant - Gray Exterior, Trim Paint	Estate Restaurant - Light Tan Concrete Wall	Turtle Bay - Unit 94 - Off White Interior Paint	Cottage Point Unit 58 - Steel Column Paint	Caneel Beach Unit 29 - Column Paint
Analyte (% weight)	CAS	Screening Level							
Lead	7439-92-1	0.50%	0.01%	0.01%	<0.008%	<0.008%	<0.008%	0.27%	1.90%

Location ID:			L15	L16	L17	L18	L20	L21
Sample Date:			11/17/2021	11/17/2021	11/18/2021	11/18/2021	11/19/2021	11/16/2021
Sample Description:			Caneel Beach Unit 14 - Paint	Caneel beach Unit 14 - Exterior Paint Light Brown	Little Caneel Beach Unit 13 - Exterior Paint	Garden View Unit 149 - Overhang Paint	Maintenance Buildings Carpentry Shop - Exterior Paint	Maintenance Buildings Carpentry Shop - Red Paint on Building Truss
Analyte (% weight)	CAS	Screening Level						
Lead	7439-92-1	0.50%	<0.008%	<0.008%	<0.008%	0.15%	0.028%	0.062%

**Table B-3A**  
**Summary of VOC Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-1-01-0.5	SC-1-01-17	SC-1-02-0.5	SC-1-02-4.3	SC-1-101	SC-1-03-0.5	SC-1-03-4
Sample Date:						11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):						0.5'	17'	0.5'	4.3'	4.3'	0.5'	4'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL					Duplicate of SC-1-02-4.3		
1,1,1-Trichloroethane	71-55-6	810	--	260	260	U 0.00087	U 0.00066	U 0.00075	U 0.00065	U 0.00062	U 0.00071	U 0.00051
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	0.6	U 0.00079	U 0.0006	U 0.00067	U 0.00059	U 0.00056	U 0.00064	U 0.00046
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	670	--	--	--	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,1,2-Trichloroethane	79-00-5	0.15	--	--	0.15	U 0.00079	U 0.0006	U 0.00067	U 0.00059	U 0.00056	U 0.00064	U 0.00046
1,1-Dichloroethane	75-34-3	3.6	--	210	3.6	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,1-Dichloroethene	75-35-4	23	--	11	11	U 0.00073	U 0.00055	U 0.00063	U 0.00055	U 0.00052	U 0.0006	U 0.00043
1,2,4-Trichlorobenzene	120-82-1	5.8	--	0.27	0.27	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	--	--	-	U 0.00035	U 0.00027	U 0.0003	U 0.00026	U 0.00025	U 0.00029	U 0.00021
1,2-Dibromoethane	106-93-4	0.036	--	--	0.036	U 0.00076	U 0.00058	U 0.00065	U 0.00057	U 0.00054	U 0.00062	U 0.00044
1,2-Dichlorobenzene	95-50-1	180	--	0.92	0.92	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,2-Dichloroethane	107-06-2	0.46	0.5	0.85	0.46	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,2-Dichloropropane	78-87-5	1.6	--	700	1.6	U 0.00085	U 0.00064	U 0.00072	U 0.00063	U 0.0006	U 0.00069	U 0.00049
1,3-Dichlorobenzene	541-73-1	--	--	0.74	0.74	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
1,4-Dichlorobenzene	106-46-7	2.6	--	0.89	0.89	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
2-Hexanone	591-78-6	20	--	0.36	0.36	U 0.0039	U 0.003	U 0.0034	U 0.0029	U 0.0028	U 0.0032	U 0.0023
4-Methyl-2-Pentanone	108-10-1	3300	--	9.7	9.7	U 0.0054	U 0.0041	U 0.0046	U 0.004	U 0.0038	U 0.0044	U 0.0031
Acetone	67-64-1	6100	--	1.2	1.2	U 0.0065	U 0.0049	U 0.0055	U 0.0048	U 0.0046	J 0.0065	U 0.0038
Benzene	71-43-2	1.2	1.2	24	1.2	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Bromodichloromethane	75-27-4	0.29	--	--	0.29	U 0.001	U 0.00076	U 0.00086	U 0.00074	U 0.00071	U 0.00081	U 0.00058
Bromoform	75-25-2	19	--	--	19	U 0.00073	U 0.00055	U 0.00063	U 0.00055	U 0.00052	U 0.0006	U 0.00043
Bromomethane	74-83-9	0.68	--	--	0.68	U 0.00073	U 0.00055	U 0.00063	U 0.00055	U 0.00052	U 0.0006	U 0.00043
Carbon disulfide	75-15-0	77	--	0.81	0.81	U 0.00089	U 0.00067	U 0.00076	U 0.00066	U 0.00063	U 0.00072	U 0.00052
Carbon Tetrachloride	56-23-5	0.65	--	58.6	0.65	U 0.00072	U 0.00054	U 0.00061	U 0.00053	U 0.00051	U 0.00058	U 0.00042
Chlorobenzene	108-90-7	28	--	2.4	2.4	U 0.00072	U 0.00054	U 0.00061	U 0.00053	U 0.00051	U 0.00058	U 0.00042
Chloroethane	75-00-3	1400	--	--	1400	U 0.0012	U 0.00091	U 0.001	U 0.00089	U 0.00085	U 0.00097	U 0.0007
Chloroform	67-66-3	0.32	--	8	0.32	U 0.00075	U 0.00057	U 0.00064	U 0.00056	U 0.00053	U 0.00061	U 0.00044
Chloromethane	74-87-3	11	--	--	11	U 0.00078	U 0.00059	U 0.00066	U 0.00058	U 0.00055	U 0.00063	U 0.00045
cis-1,2-Dichloroethene	156-59-2	16	--	89.6	16	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	U 0.00078	U 0.00059	U 0.00066	U 0.00058	U 0.00055	U 0.00063	U 0.00045
Cyclohexane	110-82-7	650	--	--	650	U 0.00072	U 0.00054	U 0.00061	U 0.00053	U 0.00051	U 0.00058	U 0.00042
Dibromochloromethane	124-48-1	8.3	--	--	8.3	U 0.00096	U 0.00073	U 0.00082	U 0.00071	U 0.00068	U 0.00078	U 0.00056
Dichlorodifluoromethane	75-71-8	8.7	--	--	8.7	U 0.00094	U 0.00071	U 0.00081	U 0.0007	U 0.00067	U 0.00077	U 0.00055
Ethylbenzene	100-41-4	5.8	1500	--	5.8	U 0.00096	U 0.00073	U 0.00082	U 0.00071	U 0.00068	U 0.00078	U 0.00056
Isopropylbenzene	98-82-8	190	--	--	190	U 0.00086	U 0.00065	U 0.00073	U 0.00064	U 0.00061	U 0.0007	U 0.0005
Methyl Acetate	79-20-9	7800	--	--	7800	U 0.00083	U 0.00063	U 0.00071	U 0.00062	U 0.00059	U 0.00068	U 0.00049
Methyl ethyl ketone	78-93-3	2700	--	350	350	U 0.0045	U 0.0034	U 0.0039	U 0.0034	U 0.0032	U 0.0037	U 0.0026
Methyl Tert-Butyl Ether	1634-04-4	47	4400	--	47	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Methylcyclohexane	108-87-2	--	--	--	--	U 0.00079	U 0.0006	U 0.00067	U 0.00059	U 0.00056	U 0.00064	U 0.00046

Location ID:						SC-1-01-0.5	SC-1-01-17	SC-1-02-0.5	SC-1-02-4.3	SC-1-101	SC-1-03-0.5	SC-1-03-4
Sample Date:						11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):						0.5'	17'	0.5'	4.3'	4.3'	0.5'	4'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL					Duplicate of SC-1-02-4.3		
Methylene chloride	75-09-2	35	--	2.6	2.6	U 0.0011	U 0.00083	U 0.00094	U 0.00082	U 0.00078	U 0.00089	U 0.00064
Styrene	100-42-5	600	--	1.2	1.2	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Tetrachloroethene	127-18-4	8.1	--	0.18	0.18	U 0.00085	U 0.00064	U 0.00072	U 0.00063	U 0.0006	U 0.00069	U 0.00049
Toluene	108-88-3	490	--	23	23	U 0.00094	U 0.00071	U 0.00081	U 0.0007	U 0.00067	U 0.00077	U 0.00055
trans-1,2-Dichloroethene	156-60-5	7	--	89.6	7	U 0.00073	U 0.00055	U 0.00063	U 0.00055	U 0.00052	U 0.0006	U 0.00043
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	U 0.00082	U 0.00062	U 0.0007	U 0.00061	U 0.00058	U 0.00066	U 0.00048
Trichloroethene	79-01-6	0.41	--	1.387	0.41	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Trichlorofluoromethane	75-69-4	2300	--	52	52	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Vinyl chloride	75-01-4	0.059	--	0.12	0.059	U 0.0007	U 0.00053	U 0.0006	U 0.00052	U 0.0005	U 0.00057	U 0.00041
Xylenes, Total	1330-20-7	58	130	1.4	1.4	U 0.002	U 0.0015	U 0.0017	U 0.0015	U 0.0014	U 0.0016	U 0.0012

Refer to notes page at end of tables for sources and definitions.

**Table B-3A**  
**Summary of VOC Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-06-7	SC-2-06-18	SC-2-07-8.5	SC-2-07-12.5	SC-2-08-15	SC-2-101	SC-2-09-5
Sample Date:						11/9/2021	11/9/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021
Interval (ftbgs):						7'	8'	8.5'	12.5'	15'	15'	5'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL						Duplicate of SC-2-08-15	
1,1,1-Trichloroethane	71-55-6	810	--	260	260	U 0.00058	U 0.00056	U 0.00061	U 0.00061	U 0.00063	U 0.00074	U 0.00056
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	0.6	U 0.00052	U 0.00051	U 0.00056	U 0.00055	U 0.00057	U 0.00067	U 0.0005
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	670	--	--	--	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,1,2-Trichloroethane	79-00-5	0.15	--	--	0.15	U 0.00052	U 0.00051	U 0.00056	U 0.00055	U 0.00057	U 0.00067	U 0.0005
1,1-Dichloroethane	75-34-3	3.6	--	210	3.6	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,1-Dichloroethene	75-35-4	23	--	11	11	U 0.00048	U 0.00047	U 0.00052	U 0.00051	U 0.00053	U 0.00062	U 0.00047
1,2,4-Trichlorobenzene	120-82-1	5.8	--	0.27	0.27	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	--	--	-	U 0.00023	U 0.00023	U 0.00025	U 0.00025	U 0.00025	U 0.0003	U 0.00022
1,2-Dibromoethane	106-93-4	0.036	--	--	0.036	U 0.0005	U 0.00049	U 0.00054	U 0.00053	U 0.00055	U 0.00064	U 0.00048
1,2-Dichlorobenzene	95-50-1	180	--	0.92	0.92	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,2-Dichloroethane	107-06-2	0.46	0.5	0.85	0.46	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,2-Dichloropropane	78-87-5	1.6	--	700	1.6	U 0.00056	U 0.00054	U 0.00059	U 0.00059	U 0.00061	U 0.00072	U 0.00054
1,3-Dichlorobenzene	541-73-1	--	--	0.74	0.74	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
1,4-Dichlorobenzene	106-46-7	2.6	--	0.89	0.89	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
2-Hexanone	591-78-6	20	--	0.36	0.36	U 0.0026	U 0.0025	U 0.0028	U 0.0028	U 0.0028	U 0.0033	U 0.0025
4-Methyl-2-Pentanone	108-10-1	3300	--	9.7	9.7	U 0.0035	U 0.0034	U 0.0038	U 0.0038	U 0.0038	U 0.0045	U 0.0034
Acetone	67-64-1	6100	--	1.2	1.2	0.0132	0.0092	0.0167	J 0.0064	U 0.0047	J 0.0067	J 0.0055
Benzene	71-43-2	1.2	1.2	24	1.2	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Bromodichloromethane	75-27-4	0.29	--	--	0.29	U 0.00066	U 0.00064	U 0.0007	U 0.0007	U 0.00072	U 0.00085	U 0.00064
Bromoform	75-25-2	19	--	--	19	U 0.00048	U 0.00047	U 0.00052	U 0.00051	U 0.00053	U 0.00062	U 0.00047
Bromomethane	74-83-9	0.68	--	--	0.68	U 0.00048	U 0.00047	U 0.00052	U 0.00051	U 0.00053	U 0.00062	U 0.00047
Carbon disulfide	75-15-0	77	--	0.81	0.81	0.0028	U 0.00057	0.0049	U 0.00062	U 0.00064	U 0.00075	J 0.0011
Carbon Tetrachloride	56-23-5	0.65	--	58.6	0.65	U 0.00047	U 0.00046	U 0.00051	U 0.0005	U 0.00052	U 0.00061	U 0.00046
Chlorobenzene	108-90-7	28	--	2.4	2.4	U 0.00047	U 0.00046	U 0.00051	U 0.0005	U 0.00052	U 0.00061	U 0.00046
Chloroethane	75-00-3	1400	--	--	1400	U 0.00079	U 0.00077	U 0.00084	U 0.00084	U 0.00086	U 0.001	U 0.00076
Chloroform	67-66-3	0.32	--	8	0.32	U 0.00049	U 0.00048	U 0.00053	U 0.00052	U 0.00054	U 0.00063	U 0.00047
Chloromethane	74-87-3	11	--	--	11	U 0.00051	U 0.0005	U 0.00055	U 0.00054	U 0.00056	U 0.00066	U 0.00049
cis-1,2-Dichloroethene	156-59-2	16	--	89.6	16	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	U 0.00051	U 0.0005	U 0.00055	U 0.00054	U 0.00056	U 0.00066	U 0.00049
Cyclohexane	110-82-7	650	--	--	650	U 0.00047	U 0.00046	0.0112	U 0.0005	U 0.00052	U 0.00061	U 0.00046
Dibromochloromethane	124-48-1	8.3	--	--	8.3	U 0.00063	U 0.00061	U 0.00067	U 0.00067	U 0.00069	U 0.00081	U 0.00061
Dichlorodifluoromethane	75-71-8	8.7	--	--	8.7	U 0.00062	U 0.0006	U 0.00066	U 0.00066	U 0.00068	U 0.0008	U 0.0006
Ethylbenzene	100-41-4	5.8	1500	--	5.8	U 0.00063	U 0.00061	U 0.00067	U 0.00067	U 0.00069	U 0.00081	U 0.00061
Isopropylbenzene	98-82-8	190	--	--	190	U 0.00057	U 0.00055	J 0.0106	U 0.0006	U 0.00062	U 0.00073	J 0.0012
Methyl Acetate	79-20-9	7800	--	--	7800	U 0.00055	U 0.00053	U 0.00058	U 0.00058	U 0.0006	U 0.0007	U 0.00053
Methyl ethyl ketone	78-93-3	2700	--	350	350	U 0.0030	U 0.0029	U 0.0032	U 0.0032	U 0.0032	U 0.0038	U 0.0029
Methyl Tert-Butyl Ether	1634-04-4	47	4400	--	47	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Methylcyclohexane	108-87-2	--	--	--	--	U 0.00052	U 0.00051	U 0.0144	U 0.00055	U 0.00057	U 0.00067	0.0028



Location ID:						SC-2-06-7	SC-2-06-18	SC-2-07-8.5	SC-2-07-12.5	SC-2-08-15	SC-2-101	SC-2-09-5
Sample Date:						11/9/2021	11/9/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021
Interval (ftbgs):						7'	8'	8.5'	12.5'	15'	15'	5'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL						Duplicate of SC-2-08-15	
Methylene chloride	75-09-2	35	--	2.6	2.6	U 0.00073	U 0.0007	U 0.00077	U 0.00077	U 0.00079	U 0.00093	U 0.0007
Styrene	100-42-5	600	--	1.2	1.2	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Tetrachloroethene	127-18-4	8.1	--	0.18	0.18	U 0.00056	U 0.00054	U 0.00059	U 0.00059	U 0.00061	U 0.00072	U 0.00054
Toluene	108-88-3	490	--	23	23	U 0.00062	U 0.0006	U 0.00066	U 0.00066	U 0.00068	U 0.0008	U 0.0006
trans-1,2-Dichloroethene	156-60-5	7	--	89.6	7	U 0.00048	U 0.00047	U 0.00052	U 0.00051	U 0.00053	U 0.00062	U 0.00047
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	U 0.00054	U 0.00052	U 0.00057	U 0.00057	U 0.00059	U 0.00069	U 0.00052
Trichloroethene	79-01-6	0.41	--	1.387	0.41	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Trichlorofluoromethane	75-69-4	2300	--	52	52	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Vinyl chloride	75-01-4	0.059	--	0.12	0.059	U 0.00046	U 0.00045	U 0.0005	U 0.00049	U 0.00051	U 0.0006	U 0.00045
Xylenes, Total	1330-20-7	58	130	1.4	1.4	U 0.0013	U 0.0013	U 0.0014	U 0.0014	U 0.0014	U 0.0017	U 0.0013

Refer to notes page at end of tables for sources and definitions.

**Table B-3A**  
**Summary of VOC Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-09-13.5	SC-2-10-13	SC-2-11-8	SC-2-102	SC-2-12-8	SC-2-13-6	SC-2-14-7.3
Sample Date:						11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/11/2021
Interval (ftbgs):						13.5'	13'	8'	8'	8'	6'	7.3'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL				Duplicate of SC-2-11-8			
1,1,1-Trichloroethane	71-55-6	810	--	260	260	U 0.00069	U 0.00064	U 0.00057	U 0.00057	U 0.00068	U 0.00084	U 0.00079
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	0.6	U 0.00062	U 0.00058	U 0.00052	U 0.00052	U 0.00061	U 0.00075	U 0.00072
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	670	--	--	--	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,1,2-Trichloroethane	79-00-5	0.15	--	--	0.15	U 0.00062	U 0.00058	U 0.00052	U 0.00052	U 0.00061	U 0.00075	U 0.00072
1,1-Dichloroethane	75-34-3	3.6	--	210	3.6	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,1-Dichloroethene	75-35-4	23	--	11	11	U 0.00058	U 0.00054	U 0.00048	U 0.00048	U 0.00057	U 0.0007	U 0.00067
1,2,4-Trichlorobenzene	120-82-1	5.8	--	0.27	0.27	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	--	--	-	U 0.00028	U 0.00026	U 0.00023	U 0.00023	U 0.00027	U 0.00034	U 0.00032
1,2-Dibromoethane	106-93-4	0.036	--	--	0.036	U 0.0006	U 0.00056	U 0.0005	U 0.0005	U 0.00059	U 0.00073	U 0.00069
1,2-Dichlorobenzene	95-50-1	180	--	0.92	0.92	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,2-Dichloroethane	107-06-2	0.46	0.5	0.85	0.46	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,2-Dichloropropane	78-87-5	1.6	--	700	1.6	U 0.00067	U 0.00062	U 0.00056	U 0.00055	U 0.00066	U 0.00081	U 0.00077
1,3-Dichlorobenzene	541-73-1	--	--	0.74	0.74	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
1,4-Dichlorobenzene	106-46-7	2.6	--	0.89	0.89	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
2-Hexanone	591-78-6	20	--	0.36	0.36	U 0.0031	U 0.0029	U 0.0026	U 0.0026	U 0.0031	U 0.0038	U 0.0036
4-Methyl-2-Pentanone	108-10-1	3300	--	9.7	9.7	U 0.0042	U 0.0039	U 0.0035	U 0.0035	U 0.0042	U 0.0051	U 0.0049
Acetone	67-64-1	6100	--	1.2	1.2	J 0.0052	0.0219	0.0194	0.0206	0.0455	U 0.0062	0.0173
Benzene	71-43-2	1.2	1.2	24	1.2	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Bromodichloromethane	75-27-4	0.29	--	--	0.29	U 0.00079	U 0.00073	U 0.00066	U 0.00066	U 0.00078	U 0.00096	U 0.00091
Bromoform	75-25-2	19	--	--	19	U 0.00058	U 0.00054	U 0.00048	U 0.00048	U 0.00057	U 0.0007	U 0.00067
Bromomethane	74-83-9	0.68	--	--	0.68	U 0.00058	U 0.00054	U 0.00048	U 0.00048	U 0.00057	U 0.0007	U 0.00067
Carbon disulfide	75-15-0	77	--	0.81	0.81	U 0.0007	U 0.00065	U 0.00058	U 0.00058	J 0.00071	U 0.00085	J 0.00098
Carbon Tetrachloride	56-23-5	0.65	--	58.6	0.65	U 0.00057	U 0.00053	U 0.00047	U 0.00047	U 0.00056	U 0.00069	U 0.00065
Chlorobenzene	108-90-7	28	--	2.4	2.4	U 0.00057	U 0.00053	U 0.00047	U 0.00047	U 0.00056	U 0.00069	U 0.00065
Chloroethane	75-00-3	1400	--	--	1400	U 0.00095	U 0.00088	U 0.00079	U 0.00078	U 0.00093	U 0.0011	U 0.0011
Chloroform	67-66-3	0.32	--	8	0.32	U 0.00059	U 0.00055	U 0.00049	U 0.00049	U 0.00058	U 0.00071	U 0.00068
Chloromethane	74-87-3	11	--	--	11	U 0.00061	U 0.00057	U 0.00051	U 0.00051	U 0.0006	U 0.00074	U 0.0007
cis-1,2-Dichloroethene	156-59-2	16	--	89.6	16	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	U 0.00061	U 0.00057	U 0.00051	U 0.00051	U 0.0006	U 0.00074	U 0.0007
Cyclohexane	110-82-7	650	--	--	650	U 0.00057	0.0245	0.0248	0.0164	0.0329	U 0.00069	0.0169
Dibromochloromethane	124-48-1	8.3	--	--	8.3	U 0.00076	U 0.0007	U 0.00063	U 0.00063	U 0.00074	U 0.00092	U 0.00087
Dichlorodifluoromethane	75-71-8	8.7	--	--	8.7	U 0.00075	U 0.00069	U 0.00062	U 0.00062	U 0.00073	U 0.0009	U 0.00086
Ethylbenzene	100-41-4	5.8	1500	--	5.8	U 0.00076	0.0064	U 0.00063	U 0.00063	J 0.0018	U 0.00092	J 0.0025
Isopropylbenzene	98-82-8	190	--	--	190	U 0.00068	0.0496	0.0118	0.009	0.048	U 0.00082	0.0145
Methyl Acetate	79-20-9	7800	--	--	7800	U 0.00066	U 0.00061	U 0.00055	U 0.00054	U 0.00064	U 0.0008	U 0.00075
Methyl ethyl ketone	78-93-3	2700	--	350	350	U 0.0036	U 0.0033	U 0.003	J 0.0062	J 0.0092	U 0.0043	U 0.0041
Methyl Tert-Butyl Ether	1634-04-4	47	4400	--	47	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Methylcyclohexane	108-87-2	--	--	--	--	U 0.00062	0.369	0.269	0.159	0.185	U 0.00075	0.108



Location ID:						SC-2-09-13.5	SC-2-10-13	SC-2-11-8	SC-2-102	SC-2-12-8	SC-2-13-6	SC-2-14-7.3
Sample Date:						11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/11/2021
Interval (ftbgs):						13.5'	13'	8'	8'	8'	6'	7.3'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL				Duplicate of SC-2-11-8			
Methylene chloride	75-09-2	35	--	2.6	2.6	U 0.00087	U 0.0008	U 0.00072	U 0.00072	U 0.00085	U 0.0011	U 0.001
Styrene	100-42-5	600	--	1.2	1.2	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Tetrachloroethene	127-18-4	8.1	--	0.18	0.18	U 0.00067	U 0.00062	U 0.00056	U 0.00055	U 0.00066	U 0.00081	U 0.00077
Toluene	108-88-3	490	--	23	23	U 0.00075	U 0.00069	U 0.00062	U 0.00062	U 0.00073	U 0.0009	U 0.00086
trans-1,2-Dichloroethene	156-60-5	7	--	89.6	7	U 0.00058	U 0.00054	U 0.00048	U 0.00048	U 0.00057	U 0.0007	U 0.00067
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	U 0.00065	U 0.0006	U 0.00054	U 0.00054	U 0.00063	U 0.00078	U 0.00074
Trichloroethene	79-01-6	0.41	--	1.387	0.41	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Trichlorofluoromethane	75-69-4	2300	--	52	52	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Vinyl chloride	75-01-4	0.059	--	0.12	0.059	U 0.00056	U 0.00052	U 0.00046	U 0.00046	U 0.00055	U 0.00067	U 0.00064
Xylenes, Total	1330-20-7	58	130	1.4	1.4	U 0.0016	U 0.0014	U 0.0013	U 0.0013	U 0.0015	U 0.0019	U 0.0018

Refer to notes page at end of tables for sources and definitions.

**Table B-3A**  
**Summary of VOC Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-15-2.8	SC-2-16-2.4	SC-2-17-9.5	SC-2-17-20	SC-2-18-6.7	SC-2-19-20	SC-2-20-15
Sample Date:						11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/12/2021	11/12/2021
Interval (ftbgs):						2.8'	2.4'	9.5'	20'	6.7'	20'	15'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL							
1,1,1-Trichloroethane	71-55-6	810	--	260	260	U 0.00074	U 0.00052	U 0.00065	U 0.001	U 0.00072	U 0.0008	U 0.00073
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	0.6	U 0.00067	U 0.00047	U 0.00059	U 0.0009	U 0.00065	U 0.00072	U 0.00066
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	670	--	--	--	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,1,2-Trichloroethane	79-00-5	0.15	--	--	0.15	U 0.00067	U 0.00047	U 0.00059	U 0.0009	U 0.00065	U 0.00072	U 0.00066
1,1-Dichloroethane	75-34-3	3.6	--	210	3.6	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,1-Dichloroethene	75-35-4	23	--	11	11	U 0.00062	U 0.00044	U 0.00055	U 0.00084	U 0.00061	U 0.00067	U 0.00062
1,2,4-Trichlorobenzene	120-82-1	5.8	--	0.27	0.27	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	--	--	-	U 0.0003	U 0.00021	U 0.00026	U 0.0004	U 0.00029	U 0.00032	U 0.0003
1,2-Dibromoethane	106-93-4	0.036	--	--	0.036	U 0.00064	U 0.00045	U 0.00057	U 0.00087	U 0.00063	U 0.0007	U 0.00064
1,2-Dichlorobenzene	95-50-1	180	--	0.92	0.92	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,2-Dichloroethane	107-06-2	0.46	0.5	0.85	0.46	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,2-Dichloropropane	78-87-5	1.6	--	700	1.6	U 0.00072	U 0.0005	U 0.00063	U 0.00097	U 0.0007	U 0.00077	U 0.00071
1,3-Dichlorobenzene	541-73-1	--	--	0.74	0.74	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
1,4-Dichlorobenzene	106-46-7	2.6	--	0.89	0.89	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
2-Hexanone	591-78-6	20	--	0.36	0.36	U 0.0033	U 0.0024	U 0.0029	U 0.0045	U 0.0033	U 0.0036	U 0.0033
4-Methyl-2-Pentanone	108-10-1	3300	--	9.7	9.7	U 0.0045	U 0.0032	U 0.004	U 0.0061	U 0.0044	U 0.0049	U 0.0045
Acetone	67-64-1	6100	--	1.2	1.2	U 0.0055	0.0211	U 0.0048	J 0.0077	U 0.0054	J 0.0083	U 0.0054
Benzene	71-43-2	1.2	1.2	24	1.2	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Bromodichloromethane	75-27-4	0.29	--	--	0.29	U 0.00085	U 0.0006	U 0.00075	U 0.0011	U 0.00083	U 0.00092	U 0.00084
Bromoform	75-25-2	19	--	--	19	U 0.00062	U 0.00044	U 0.00055	U 0.00084	U 0.00061	U 0.00067	U 0.00062
Bromomethane	74-83-9	0.68	--	--	0.68	U 0.00062	U 0.00044	U 0.00055	U 0.00084	U 0.00061	U 0.00067	U 0.00062
Carbon disulfide	75-15-0	77	--	0.81	0.81	U 0.00075	U 0.00053	U 0.00066	U 0.001	U 0.00073	U 0.00081	U 0.00075
Carbon Tetrachloride	56-23-5	0.65	--	58.6	0.65	U 0.00061	U 0.00043	U 0.00054	U 0.00082	U 0.00059	U 0.00066	U 0.0006
Chlorobenzene	108-90-7	28	--	2.4	2.4	U 0.00061	U 0.00043	U 0.00054	U 0.00082	U 0.00059	U 0.00066	U 0.0006
Chloroethane	75-00-3	1400	--	--	1400	U 0.001	U 0.00071	U 0.00089	U 0.0014	U 0.00099	U 0.0011	U 0.001
Chloroform	67-66-3	0.32	--	8	0.32	U 0.00063	U 0.00044	U 0.00056	U 0.00086	U 0.00062	U 0.00068	U 0.00063
Chloromethane	74-87-3	11	--	--	11	U 0.00066	U 0.00046	U 0.00058	U 0.00089	U 0.00064	U 0.00071	U 0.00065
cis-1,2-Dichloroethene	156-59-2	16	--	89.6	16	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	U 0.00066	U 0.00046	U 0.00058	U 0.00089	U 0.00064	U 0.00071	U 0.00065
Cyclohexane	110-82-7	650	--	--	650	U 0.00061	U 0.00043	0.0089	U 0.00082	U 0.00059	U 0.00066	U 0.0006
Dibromochloromethane	124-48-1	8.3	--	--	8.3	U 0.00081	U 0.00057	U 0.00071	U 0.0011	U 0.00079	U 0.00088	U 0.00081
Dichlorodifluoromethane	75-71-8	8.7	--	--	8.7	U 0.0008	U 0.00056	U 0.0007	U 0.0011	U 0.00078	U 0.00086	U 0.00079
Ethylbenzene	100-41-4	5.8	1500	--	5.8	U 0.00081	U 0.00057	U 0.00071	U 0.0011	U 0.00079	U 0.00088	U 0.00081
Isopropylbenzene	98-82-8	190	--	--	190	U 0.00073	U 0.00051	J 0.00077	U 0.00098	U 0.00071	U 0.00079	U 0.00072
Methyl Acetate	79-20-9	7800	--	--	7800	U 0.0007	U 0.0005	U 0.00062	U 0.00095	U 0.00069	U 0.00076	U 0.0007
Methyl ethyl ketone	78-93-3	2700	--	350	350	U 0.0038	U 0.0027	U 0.0034	U 0.0052	U 0.0037	U 0.0041	U 0.0038
Methyl Tert-Butyl Ether	1634-04-4	47	4400	--	47	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Methylcyclohexane	108-87-2	--	--	--	--	U 0.00067	U 0.00047	0.067	U 0.0009	U 0.00065	U 0.00072	U 0.00066

Location ID:						SC-2-15-2.8	SC-2-16-2.4	SC-2-17-9.5	SC-2-17-20	SC-2-18-6.7	SC-2-19-20	SC-2-20-15
Sample Date:						11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/12/2021	11/12/2021
Interval (ftbgs):						2.8'	2.4'	9.5'	20'	6.7'	20'	15'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL							
Methylene chloride	75-09-2	35	--	2.6	2.6	U 0.00093	U 0.00065	U 0.00082	U 0.0013	U 0.00091	U 0.001	U 0.00092
Styrene	100-42-5	600	--	1.2	1.2	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Tetrachloroethene	127-18-4	8.1	--	0.18	0.18	U 0.00072	U 0.0005	U 0.00063	U 0.00097	U 0.0007	U 0.00077	U 0.00071
Toluene	108-88-3	490	--	23	23	U 0.0008	U 0.00056	U 0.0007	U 0.0011	U 0.00078	U 0.00086	U 0.00079
trans-1,2-Dichloroethene	156-60-5	7	--	89.6	7	U 0.00062	U 0.00044	U 0.00055	U 0.00084	U 0.00061	U 0.00067	U 0.00062
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	U 0.00069	U 0.00049	U 0.00061	U 0.00094	U 0.00068	U 0.00075	U 0.00069
Trichloroethene	79-01-6	0.41	--	1.387	0.41	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Trichlorofluoromethane	75-69-4	2300	--	52	52	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Vinyl chloride	75-01-4	0.059	--	0.12	0.059	U 0.0006	U 0.00042	U 0.00053	U 0.00081	U 0.00058	U 0.00064	U 0.00059
Xylenes, Total	1330-20-7	58	130	1.4	1.4	U 0.0017	U 0.0012	U 0.0015	U 0.0023	U 0.0016	U 0.0018	U 0.0017

Refer to notes page at end of tables for sources and definitions.

**Table B-3A**  
**Summary of VOC Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-21-15	SC-2-22-18	SC-C7-01-5	SC-C7-02-5	SC-C7-03-6.6	SC-C7-101
Sample Date:						11/16/2021	11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021
Interval (ftbgs):						15'	18'	5'	5'	6.6'	6.6
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL						Duplicate of SC-C7-03-6.6
1,1,1-Trichloroethane	71-55-6	810	--	260	260	U 0.00058	U 0.00066	U 0.0007	U 0.00072	U 0.00071	U 0.00062
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	0.6	U 0.00052	U 0.0006	U 0.00063	U 0.00065	U 0.00064	U 0.00056
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	670	--	--	--	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,1,2-Trichloroethane	79-00-5	0.15	--	--	0.15	U 0.00052	U 0.0006	U 0.00063	U 0.00065	U 0.00064	U 0.00056
1,1-Dichloroethane	75-34-3	3.6	--	210	3.6	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,1-Dichloroethene	75-35-4	23	--	11	11	U 0.00048	U 0.00055	U 0.00058	U 0.0006	U 0.0006	U 0.00052
1,2,4-Trichlorobenzene	120-82-1	5.8	--	0.27	0.27	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	--	--	-	U 0.00023	U 0.00027	U 0.00028	U 0.00029	U 0.00029	U 0.00025
1,2-Dibromoethane	106-93-4	0.036	--	--	0.036	U 0.0005	U 0.00057	U 0.00061	U 0.00062	U 0.00062	U 0.00054
1,2-Dichlorobenzene	95-50-1	180	--	0.92	0.92	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,2-Dichloroethane	107-06-2	0.46	0.5	0.85	0.46	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,2-Dichloropropane	78-87-5	1.6	--	700	1.6	U 0.00056	U 0.00064	U 0.00067	U 0.00069	U 0.00069	U 0.0006
1,3-Dichlorobenzene	541-73-1	--	--	0.74	0.74	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
1,4-Dichlorobenzene	106-46-7	2.6	--	0.89	0.89	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
2-Hexanone	591-78-6	20	--	0.36	0.36	U 0.0026	U 0.003	U 0.0031	U 0.0032	U 0.0032	U 0.0028
4-Methyl-2-Pentanone	108-10-1	3300	--	9.7	9.7	U 0.0035	U 0.004	U 0.0043	U 0.0044	U 0.0044	U 0.0038
Acetone	67-64-1	6100	--	1.2	1.2	J 0.0077	U 0.0049	J 0.0053	U 0.0053	U 0.0053	U 0.0046
Benzene	71-43-2	1.2	1.2	24	1.2	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Bromodichloromethane	75-27-4	0.29	--	--	0.29	U 0.00066	U 0.00076	U 0.0008	U 0.00082	U 0.00081	U 0.00071
Bromoform	75-25-2	19	--	--	19	U 0.00048	U 0.00055	U 0.00058	U 0.0006	U 0.0006	U 0.00052
Bromomethane	74-83-9	0.68	--	--	0.68	U 0.00048	U 0.00055	U 0.00058	U 0.0006	U 0.0006	U 0.00052
Carbon disulfide	75-15-0	77	--	0.81	0.81	U 0.00059	U 0.00067	U 0.00071	U 0.00073	U 0.00072	U 0.00063
Carbon Tetrachloride	56-23-5	0.65	--	58.6	0.65	U 0.00047	U 0.00054	U 0.00057	U 0.00059	U 0.00059	U 0.00051
Chlorobenzene	108-90-7	28	--	2.4	2.4	U 0.00047	U 0.00054	U 0.00057	U 0.00059	U 0.00059	U 0.00051
Chloroethane	75-00-3	1400	--	--	1400	U 0.00079	U 0.0009	U 0.00095	U 0.00098	U 0.00098	U 0.00085
Chloroform	67-66-3	0.32	--	8	0.32	U 0.00049	U 0.00056	U 0.00059	U 0.00061	U 0.00061	U 0.00053
Chloromethane	74-87-3	11	--	--	11	U 0.00051	U 0.00059	U 0.00062	U 0.00064	U 0.00063	U 0.00055
cis-1,2-Dichloroethene	156-59-2	16	--	89.6	16	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	U 0.00051	U 0.00059	U 0.00062	U 0.00064	U 0.00063	U 0.00055
Cyclohexane	110-82-7	650	--	--	650	U 0.00047	U 0.00054	U 0.00057	U 0.00059	U 0.00059	U 0.00051
Dibromochloromethane	124-48-1	8.3	--	--	8.3	U 0.00063	U 0.00072	U 0.00076	U 0.00079	U 0.00078	U 0.00068
Dichlorodifluoromethane	75-71-8	8.7	--	--	8.7	U 0.00062	U 0.00071	U 0.00075	U 0.00077	U 0.00077	U 0.00067
Ethylbenzene	100-41-4	5.8	1500	--	5.8	U 0.00063	U 0.00072	U 0.00076	U 0.00079	U 0.00078	U 0.00068
Isopropylbenzene	98-82-8	190	--	--	190	U 0.00057	U 0.00065	U 0.00068	U 0.0007	U 0.0007	U 0.00061
Methyl Acetate	79-20-9	7800	--	--	7800	U 0.00055	U 0.00063	U 0.00066	U 0.00068	U 0.00068	U 0.00059
Methyl ethyl ketone	78-93-3	2700	--	350	350	U 0.003	U 0.0034	U 0.0036	U 0.0037	U 0.0037	U 0.0032
Methyl Tert-Butyl Ether	1634-04-4	47	4400	--	47	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Methylcyclohexane	108-87-2	--	--	--	--	U 0.00052	U 0.0006	U 0.00063	U 0.00065	U 0.00064	U 0.00056

Location ID:						SC-2-21-15	SC-2-22-18	SC-C7-01-5	SC-C7-02-5	SC-C7-03-6.6	SC-C7-101
Sample Date:						11/16/2021	11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021
Interval (ftbgs):						15'	18'	5'	5'	6.6'	6.6
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL						Duplicate of SC-C7-03-6.6
Methylene chloride	75-09-2	35	--	2.6	2.6	U 0.00073	U 0.00083	U 0.00088	U 0.0009	U 0.0009	U 0.00078
Styrene	100-42-5	600	--	1.2	1.2	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Tetrachloroethene	127-18-4	8.1	--	0.18	0.18	U 0.00056	U 0.00064	U 0.00067	U 0.00069	U 0.00069	U 0.0006
Toluene	108-88-3	490	--	23	23	U 0.00062	U 0.00071	U 0.00075	U 0.00077	U 0.00077	U 0.00067
trans-1,2-Dichloroethene	156-60-5	7	--	89.6	7	U 0.00048	U 0.00055	U 0.00058	U 0.0006	U 0.0006	U 0.00052
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	U 0.00054	U 0.00062	U 0.00065	U 0.00067	U 0.00067	U 0.00058
Trichloroethene	79-01-6	0.41	--	1.387	0.41	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Trichlorofluoromethane	75-69-4	2300	--	52	52	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Vinyl chloride	75-01-4	0.059	--	0.12	0.059	U 0.00047	U 0.00053	U 0.00056	U 0.00058	U 0.00057	U 0.0005
Xylenes, Total	1330-20-7	58	130	1.4	1.4	U 0.0013	U 0.0015	U 0.0016	U 0.0016	U 0.0016	U 0.0014

Refer to notes page at end of tables for sources and definitions.

**Table B-3B**  
**Summary of PAH Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-1-01-0.5	SC-1-01-17	SC-1-02-0.5	SC-1-02-4.3	SC-1-101	SC-1-03-0.5	SC-1-03-4
Sample Date:						11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):						0.5'	17'	0.5'	4.3'	4.3'	0.5'	4'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL					Duplicate of SC-1-02-4.3		
Acenaphthene	83-32-9	360	2400	0.25	0.25	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Acenaphthylene	208-96-8	--	1800	120	120	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Anthracene	120-12-7	1800	21000	6.8	6.8	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Benz(a)anthracene	56-55-3	1.1	--	0.73	0.73	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Benzo(a)pyrene	50-32-8	0.11	0.1	1.98	0.1	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Benz(b)fluoranthene	205-99-2	1.1	--	18	1.1	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Benz(g,h,i,)perylene	191-24-2	--	2500	25	25	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Benz(k)fluoranthene	207-08-9	11	--	71	11	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Chrysene	218-01-9	110	--	3.1	3.1	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Dibenz(a,h)anthracene	53-70-3	0.11	--	14	0.11	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Fluoranthene (Idryl)	206-44-0	240	3200	10	10	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Fluorene	86-73-7	240	2600	3.7	3.7	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	--	71	1.1	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Naphthalene	91-20-3	2	55	1	1	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Phenanthrene	85-01-8	--	2200	5.5	5.5	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175
Pyrene	129-00-0	180	2400	10	10	U 0.0204	U 0.0186	U 0.021	U 0.0207	U 0.0176	U 0.0239	U 0.0175

Refer to notes page at end of tables for sources and definitions.

**Table B-3B**  
**Summary of PAH Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-06-7	SC-2-06-18	SC-2-07-8.5	SC-2-07-12.5	SC-2-08-15	SC-2-101	SC-2-09-5	SC-2-09-13.5
Sample Date:						11/9/2021	11/9/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021
Interval (ftbgs):						7'	8'	8.5'	12.5'	15'	15'	5'	13.5'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL						Duplicate of SC-2-08-15		
Acenaphthene	83-32-9	360	2400	0.25	0.25	U 0.0206	U 0.0199	U 0.0792	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Acenaphthylene	208-96-8	--	1800	120	120	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Anthracene	120-12-7	1800	21000	6.8	6.8	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Benz(a)anthracene	56-55-3	1.1	--	0.73	0.73	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Benzo(a)pyrene	50-32-8	0.11	0.1	1.98	0.1	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Benz(b)fluoranthene	205-99-2	1.1	--	18	1.1	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Benz(g,h,i,)perylene	191-24-2	--	2500	25	25	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Benz(k)fluoranthene	207-08-9	11	--	71	11	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Chrysene	218-01-9	110	--	3.1	3.1	J 0.0413	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Dibenz(a,h)anthracene	53-70-3	0.11	--	14	0.11	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Fluoranthene (Idryl)	206-44-0	240	3200	10	10	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Fluorene	86-73-7	240	2600	3.7	3.7	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	--	71	1.1	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Naphthalene	91-20-3	2	55	1	1	U 0.0206	U 0.0199	U 0.0255	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Phenanthrene	85-01-8	--	2200	5.5	5.5	U 0.0206	U 0.0199	0.228	U 0.0228	U 0.0198	U 0.0221	U 0.0187	U 0.0196
Pyrene	129-00-0	180	2400	10	10	U 0.268	U 0.0199	0.135	U 0.0228	U 0.0198	U 0.0221	0.0721	U 0.0196

Refer to notes page at end of tables for sources and definitions.



**Table B-3B**  
**Summary of PAH Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-10-13	SC-2-11-8	SC-2-102	SC-2-12-8	SC-2-13-6	SC-2-14-7.3	SC-2-15-2.8
Sample Date:						11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/11/2021	11/11/2021
Interval (ftbgs):						13'	8'	8'	8'	6'	7.3'	2.8'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL			Duplicate of SC-2-11-8				
Acenaphthene	83-32-9	360	2400	0.25	0.25	U 0.0213	U 0.0199	U 0.0199	0.288	U 0.0205	U 0.0209	U 0.0174
Acenaphthylene	208-96-8	--	1800	120	120	U 0.0213	U 0.0199	U 0.0199	0.148	U 0.0205	U 0.0209	U 0.0174
Anthracene	120-12-7	1800	21000	6.8	6.8	U 0.0213	U 0.0199	U 0.0199	0.0823	U 0.0205	U 0.0209	U 0.0174
Benz(a)anthracene	56-55-3	1.1	--	0.73	0.73	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Benzo(a)pyrene	50-32-8	0.11	0.1	1.98	0.1	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Benz(b)fluoranthene	205-99-2	1.1	--	18	1.1	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Benz(g,h,i,)perylene	191-24-2	--	2500	25	25	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Benz(k)fluoranthene	207-08-9	11	--	71	11	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Chrysene	218-01-9	110	--	3.1	3.1	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Dibenz(a,h)anthracene	53-70-3	0.11	--	14	0.11	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Fluoranthene (Idryl)	206-44-0	240	3200	10	10	U 0.0213	U 0.0199	U 0.0199	J 0.0219	U 0.0205	U 0.0209	U 0.0174
Fluorene	86-73-7	240	2600	3.7	3.7	0.0611	J 0.22	0.144	0.732	U 0.0205	U 0.0209	U 0.0174
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	--	71	1.1	U 0.0213	U 0.0199	U 0.0199	U 0.0192	U 0.0205	U 0.0209	U 0.0174
Naphthalene	91-20-3	2	55	1	1	U 0.0213	U 0.0199	U 0.0199	J 0.0356	U 0.0205	U 0.0209	U 0.0174
Phenanthrene	85-01-8	--	2200	5.5	5.5	0.222	0.396	0.295	1.09	U 0.0205	0.205	U 0.0174
Pyrene	129-00-0	180	2400	10	10	U 0.0213	J 0.046	J 0.0317	0.0594	U 0.0205	U 0.0209	U 0.0174

Refer to notes page at end of tables for sources and definitions.



**Table B-3B**  
**Summary of PAH Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-2-16-2.4	SC-2-17-9.5	SC-2-17-20	SC-2-18-6.7	SC-2-19-20	SC-2-20-15	SC-2-21-15	SC-2-22-18
Sample Date:						11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/12/2021	11/12/2021	11/16/2021	11/16/2021
Interval (ftbgs):						2.4'	9.5'	20'	6.7'	20'	15'	15'	18'
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL								
Acenaphthene	83-32-9	360	2400	0.25	0.25	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Acenaphthylene	208-96-8	--	1800	120	120	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Anthracene	120-12-7	1800	21000	6.8	6.8	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Benz(a)anthracene	56-55-3	1.1	--	0.73	0.73	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Benzo(a)pyrene	50-32-8	0.11	0.1	1.98	0.1	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Benz(b)fluoranthene	205-99-2	1.1	--	18	1.1	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Benz(g,h,i,)perylene	191-24-2	--	2500	25	25	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Benz(k)fluoranthene	207-08-9	11	--	71	11	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Chrysene	218-01-9	110	--	3.1	3.1	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Dibenz(a,h)anthracene	53-70-3	0.11	--	14	0.11	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Fluoranthene (Idryl)	206-44-0	240	3200	10	10	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Fluorene	86-73-7	240	2600	3.7	3.7	U 0.0173	0.0797	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	--	71	1.1	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Naphthalene	91-20-3	2	55	1	1	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Phenanthrene	85-01-8	--	2200	5.5	5.5	U 0.0173	J 0.0548	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221
Pyrene	129-00-0	180	2400	10	10	U 0.0173	U 0.0208	U 0.0215	U 0.0195	U 0.0217	U 0.0216	U 0.0214	U 0.0221

Refer to notes page at end of tables for sources and definitions.

**Table B-3B**  
**Summary of PAH Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:						SC-C7-01-5		SC-C7-02-5		SC-C7-03-6.6		SC-C7-101	
Sample Date:						11/12/2021		11/12/2021		11/12/2021		11/12/2021	
Interval (ftbgs):						5'		5'		6.6'		6.6'	
Analyte (mg/kg)	CAS	Soil RSL	DPNR Soil	NPS Soil ESV	Soil PAL							Duplicate of SC-C7-03-6.6	
Acenaphthene	83-32-9	360	2400	0.25	0.25	J	0.0497		0.196	U	0.0206	U	0.0194
Acenaphthylene	208-96-8	--	1800	120	120	U	0.0207	U	0.0221	U	0.0206	U	0.0194
Anthracene	120-12-7	1800	21000	6.8	6.8		0.114		0.441	U	0.0206	U	0.0194
Benz(a)anthracene	56-55-3	1.1	--	0.73	0.73		0.291		0.952	U	0.0206	U	0.0194
Benzo(a)pyrene	50-32-8	0.11	0.1	1.98	0.1		0.2		0.651	U	0.0206	U	0.0194
Benz(b)fluoranthene	205-99-2	1.1	--	18	1.1		0.218		0.678	U	0.0206	U	0.0194
Benz(g,h,i,)perylene	191-24-2	--	2500	25	25		0.126		0.406	U	0.0206	U	0.0194
Benz(k)fluoranthene	207-08-9	11	--	71	11		0.214		0.742	U	0.0206	U	0.0194
Chrysene	218-01-9	110	--	3.1	3.1		0.252		0.836	U	0.0206	U	0.0194
Dibenz(a,h)anthracene	53-70-3	0.11	--	14	0.11	J	0.0341		0.118	U	0.0206	U	0.0194
Fluoranthene (Idryl)	206-44-0	240	3200	10	10		0.651		2.29	U	0.0206	U	0.0194
Fluorene	86-73-7	240	2600	3.7	3.7	J	0.0381		0.14	U	0.0206	U	0.0194
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	--	71	1.1		0.147		0.491	U	0.0206	U	0.0194
Naphthalene	91-20-3	2	55	1	1	U	0.0207	U	0.073	U	0.0206	U	0.0194
Phenanthrene	85-01-8	--	2200	5.5	5.5		0.442		1.68	U	0.0206	U	0.0194
Pyrene	129-00-0	180	2400	10	10		0.468		1.64	U	0.0206	U	0.0194

Refer to notes page at end of tables for sources and definitions.

**Table B-3C**

**Summary of Lead Results in Subsurface Soil**

**Caneel Bay Site**

Location ID:						SC-1-01-0.5		SC-1-01-17		SC-1-02-0.5		SC-1-02-4.3		SC-1-03-0.5		SC-1-03-4		SC-1-101		
Sample Date:						11/15/2021		11/15/2021		11/15/2021		11/15/2021		11/15/2021		11/15/2021		11/15/2021		
Interval (ftbgs):						0.5'		17'		0.5'		4.3'		0.5'		4'		4.3'		
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL														Duplicate of SC-1-02-4.3		
Lead	7439-92-1	400	0.94	0.94		25.3	J	0.9		4.3		1.2		2.4	J	0.93		1.3		
Location ID:						SC-2-06-7		SC-2-06-18		SC-2-07-8.5			SC-2-07-12.5		SC-2-08-15		SC-2-101		SC-2-09-5	
Sample Date:						11/9/2021		11/9/2021		11/10/2021			11/10/2021		11/10/2021		11/10/2021		11/10/2021	
Interval (ftbgs):						7'		18'		8.5'			12.5'		15'		15'		5'	
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL													Duplicate of SC- 2-08-15			
Lead	7439-92-1	400	0.94	0.94		1.8		5.3		1.9		1.7		2.3		2.3		1.3		

Location ID:						SC-2-09-13.5		SC-2-10-13		SC-2-11-8			SC-2-102		SC-2-12-8		SC-2-13-6		SC-2-14-7.3	
Sample Date:						11/10/2021		11/10/2021		11/10/2021			11/10/2021		11/10/2021		11/10/2021		11/11/2021	
Interval (ftbgs):						13.5'		13'		8'			8'		8'		6'		7.3'	
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL									Duplicate of SC-2-11-8							
Lead	7439-92-1	400	0.94	0.94		2.8		2.9		2.1		1.6		1.6	J	0.69		1.5		

Location ID:						SC-2-15-2.8		SC-2-16-2.4		SC-2-17-9.5			SC-2-17-20		SC-2-18-6.7		Wastewater Treatment Soil		SC-2-19-20	
Sample Date:						11/11/2021		11/11/2021		11/11/2021			11/11/2021		11/11/2021		11/18/2021		11/12/2021	
Interval (ftbgs):						2.8'		2.4'		9.5'			20'		6.7'		0.25'		20'	
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL																
Lead	7439-92-1	400	0.94	0.94	J	0.51	J	0.54		1.5		1.6		11	U	40		27.2		

Location ID:						SC-2-20-15		SC-2-21-15		SC-2-22-18			SC-C7-01-5		SC-C7-02-5		SC-C7-03-6.6		SC-C7-101	
Sample Date:						11/12/2021		11/16/2021		11/16/2021			11/12/2021		11/12/2021		11/12/2021		11/12/2021	
Interval (ftbgs):						15'		15'		18'			5'		5'		6.6'		6.6'	
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL														Duplicate of SC- C7-03-6.6		
Lead	7439-92-1	400	0.94	0.94		2.8	J	0.92		1.7		3.8		1.5		1.1		1.2		

Refer to notes page at end of tables for sources and definitions.

**Table B-3D**  
**Summary of Pesticide Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:					SC-1-01-0.5	SC-1-01-17	SC-1-02-0.5	SC-1-02-4.3	SC-1-101	SC-1-03-0.5	SC-1-03-4
Sample Date:					11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):					0.5'	17'	0.5'	4.3'	4.3'	0.5'	4'
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL					Duplicate of SC-1-02-4.3		
COCs (Soil Removal Goal shown)											
4,4-DDD	72-54-8	.17 (Total)			U 0.0026	U 0.0012	U 0.0013	U 0.0013	U 0.0011	U 0.0015	U 0.0011
4,4-DDE	72-55-9	.17 (Total)			U 0.0278	U 0.0006	U 0.00067	U 0.00065	U 0.00056	U 0.00077	U 0.00056
4,4-DDT	50-29-3	.17 (Total)			U 0.0431	U 0.00054	U 0.0006	U 0.00058	U 0.0005	U 0.00068	U 0.0005
Total DDT (DDD, DDE, DDT)		0.17			U 0.0735	U 0.00234	U 0.00257	U 0.00253	U 0.00216	U 0.00295	U 0.00216
Aldrin	309-00-2	0.018			U 0.00051	U 0.00046	U 0.00051	U 0.00049	U 0.00043	U 0.00059	U 0.00043
alpha-Chlordane	5103-71-9	1.2			U 0.00063	U 0.00057	U 0.00064	U 0.00061	U 0.00053	U 0.00073	U 0.00053
trans-Chlordane	5103-74-2	1.2			U 0.00059	U 0.00054	U 0.0006	U 0.00058	U 0.0005	U 0.00068	U 0.0005
Dieldrin	60-57-1	0.034			U 0.0023	U 0.00072	U 0.00081	U 0.00078	U 0.00067	U 0.00092	U 0.00068
PCOPCs (Screening Levels shown)											
alpha-BHC	319-84-6	0.086	0.07	0.07	U 0.00075	U 0.00068	U 0.00076	U 0.00073	U 0.00063	U 0.00086	U 0.00064
beta-BHC	319-85-7	0.3	0.004	0.004	U 0.00059	U 0.00054	U 0.0006	U 0.00058	U 0.0005	U 0.00068	U 0.0005
delta-BHC	319-86-8	--	0.07	0.07	U 0.00068	U 0.00061	U 0.00068	U 0.00066	U 0.00057	U 0.00078	U 0.00057
Endosulfan I	959-98-8	--	--	--	U 0.00056	U 0.0005	U 0.00056	U 0.00054	U 0.00047	U 0.00064	U 0.00047
Endosulfan II	33213-65-9	--	0.56	0.56	U 0.00075	U 0.00068	U 0.00076	U 0.00073	U 0.00063	U 0.00086	U 0.00064
Endosulfan Sulfate	1031-07-8	38	0.56	0.56	U 0.00057	U 0.00052	U 0.00057	U 0.00055	U 0.00048	U 0.00066	U 0.00048
Endrin	72-20-8	1.9	0.0014	0.0014	U 0.001	U 0.00092	U 0.001	U 0.00099	U 0.00086	U 0.0012	U 0.00086
Endrin Aldehyde	7421-93-4	--	--	--	U 0.00099	U 0.0009	U 0.001	U 0.00097	U 0.00084	U 0.0011	U 0.00084
Endrin ketone	53494-70-5	--	--	--	U 0.001	U 0.00091	U 0.001	U 0.00098	U 0.00085	U 0.0012	U 0.00085
gamma-BHC (Lindane)	58-89-9	0.57	0.005	0.005	U 0.00066	U 0.0006	U 0.00067	U 0.00065	U 0.00056	U 0.00077	U 0.00056
Heptachlor	76-44-8	0.13	0.059	0.059	U 0.00099	U 0.0009	U 0.001	U 0.00097	U 0.00084	U 0.0011	U 0.00084
Heptachlor Epoxide	1024-57-3	0.07	--	0.07	U 0.00057	U 0.00052	U 0.00057	U 0.00055	U 0.00048	U 0.00066	U 0.00048
Methoxychlor	72-43-5	32	5.1	5.1	U 0.0029	U 0.0026	U 0.0029	U 0.0028	U 0.0024	U 0.0033	U 0.0025
Toxaphene	8001-35-2	0.49	4.1	0.49	U 0.0214	U 0.0194	U 0.0216	U 0.0208	U 0.0181	U 0.0247	U 0.0181

Refer to notes page at end of tables for sources and definitions.

**Table B-3E**  
**Summary of PCB Results in Subsurface Soil**  
**Caneel Bay Site**

Location ID:					SC-1-01-0.5	SC-1-01-17	SC-1-02-0.5	SC-1-02-4.3	SC-1-101	SC-1-03-0.5	SC-1-03-4
Sample Date:					11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):					0.5'	17'	0.5'	4.3'	4.3'	0.5'	4'
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL					Duplicate of SC-1-02-4.3		
Aroclor 1016	12674-11-2	0.41	1.1	0.41	U 0.0048	U 0.0044	U 0.0049	U 0.0047	U 0.0041	U 0.0056	U 0.0041
Aroclor 1221	11104-28-2	0.2	--	0.2	U 0.021	U 0.019	U 0.021	U 0.02	U 0.017	U 0.024	U 0.017
Aroclor 1232	11141-16-5	0.17	--	0.17	U 0.0085	U 0.0077	U 0.0086	U 0.0082	U 0.0071	U 0.0098	U 0.0072
Aroclor 1242	53469-21-9	0.23	0.041	0.041	U 0.0085	U 0.0077	U 0.0086	U 0.0082	U 0.0071	U 0.0098	U 0.0072
Aroclor 1248	12672-29-6	0.23	0.0073	0.0073	U 0.0073	U 0.0066	U 0.0073	U 0.0071	U 0.0061	U 0.0084	U 0.0061
Aroclor 1254	11097-69-1	0.12	0.041	0.041	U 0.0048	U 0.0044	U 0.0049	U 0.0047	U 0.0041	U 0.0056	U 0.0041
Aroclor 1260	11096-82-5	0.24	0.88	0.24	U 0.0048	U 0.0044	U 0.0049	U 0.0047	U 0.0041	U 0.0056	U 0.0041

Refer to notes page at end of tables for sources and definitions.



**Table B-4A**  
**Summary of ISM Pesticide Results in Surface Soil**  
**Caneel Bay Site**

Location ID:					IA-CB-01 A	IA-CB-01 B	IA-CB-01 C	IA-CB-02 A	IA-CB-02 B	IA-CB-02 C
Sample Date:					11/13/2021	11/13/2021	11/13/2021	11/15/2021	11/15/2021	11/15/2021
Interval (ftbgs):					0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'
Analyte (mg/kg)	CAS	Soil RSL	NPS Soil ESV	Soil PAL						
<b>COCs (EE/CA Soil Removal Goal shown)</b>										
4,4-DDD	72-54-8	0.17			U 0.0055	U 0.0055	U 0.0054	U 0.0053	U 0.0055	U 0.0054
4,4-DDE	72-55-9	0.17			U 0.0027	U 0.0027	U 0.0027	U 0.0027	U 0.0028	U 0.0027
4,4-DDT	50-29-3	0.17			U 0.0243	U 0.0243	U 0.024	U 0.0237	U 0.0245	U 0.0242
Aldrin	309-00-2	0.018			U 0.0021	U 0.0021	U 0.0021	U 0.002	U 0.0021	U 0.0021
alpha-Chlordane	5103-71-9	1.2			U 0.0026	U 0.0026	U 0.0025	U 0.0025	U 0.0026	U 0.0026
trans-Chlordane	5103-74-2	1.2			U 0.0024	U 0.0024	U 0.0024	U 0.0024	U 0.0025	U 0.0024
Dieldrin	60-57-1	0.034			U 0.0033	U 0.0033	U 0.0032	U 0.0032	U 0.0033	U 0.0033
<b>PCOPCs (Screening Levels shown)</b>										
alpha-BHC	319-84-6	0.086	0.07	0.07	U 0.0031	U 0.0031	U 0.003	U 0.003	U 0.0031	U 0.0031
beta-BHC	319-85-7	0.3	0.00398	0.00398	U 0.0024	U 0.0024	U 0.0024	U 0.0024	U 0.0025	U 0.0024
delta-BHC	319-86-8	--	0.07	0.07	U 0.0028	U 0.0028	U 0.0027	U 0.0027	U 0.0028	U 0.0028
Endosulfan I	959-98-8	--	--	--	U 0.0023	U 0.0023	U 0.0023	U 0.0022	U 0.0023	U 0.0023
Endosulfan II	33213-65-9	--	0.56	0.56	U 0.0031	U 0.0031	U 0.003	U 0.003	U 0.0031	U 0.0031
Endosulfan Sulfate	1031-07-8	38	0.56	0.56	U 0.0023	U 0.0023	U 0.0023	U 0.0023	U 0.0024	U 0.0023
Endrin	72-20-8	1.9	0.0014	0.0014	U 0.0042	U 0.0042	U 0.0041	U 0.0041	U 0.0042	U 0.0041
Endrin Aldehyde	7421-93-4	--	--	--	U 0.0041	U 0.0041	U 0.004	U 0.004	U 0.0041	U 0.004
Endrin ketone	53494-70-5	--	--	--	U 0.0041	U 0.0041	U 0.0041	U 0.004	U 0.0042	U 0.0041
gamma-BHC (Lindane)	58-89-9	0.57	0.005	0.005	U 0.0027	U 0.0027	U 0.0027	U 0.0027	U 0.0025	U 0.0027
Heptachlor	76-44-8	0.13	0.059	0.059	U 0.0041	U 0.0041	U 0.004	U 0.004	U 0.0041	U 0.004
Heptachlor Epoxide	1024-57-3	0.07	--	0.07	U 0.0023	U 0.0023	U 0.0023	U 0.0023	U 0.0024	U 0.0023
Methoxychlor	72-43-5	32	5.1	5.1	U 0.0119	U 0.0119	U 0.0118	U 0.0116	U 0.012	U 0.0118
Toxaphene	8001-35-2	0.49	4.1	0.49	U 0.0879	U 0.0879	U 0.0868	U 0.0856	U 0.0885	U 0.0873

Refer to notes page at end of tables for sources and definitions.

**Table B-4B**  
**Summary of ISM Arsenic Results in Surface Soil**  
**Caneel Bay Site**

Location ID:			IA-Ref-03 A	IA-Ref-03 B	IA-Ref-03 C	IA-Ref-04 A	IA-Ref-04 B	IA-Ref-04 C	IA-Ref-05 A	IA-Ref-05 B	IA-Ref-05 C
Sample Date:			11/13/2021	11/13/2021	11/13/2021	11/15/2021	11/15/2021	11/15/2021	11/19/2021	11/19/2021	11/19/2021
Interval (ftbgs):			0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'	0 - 0.5'
Analyte (mg/kg)	CAS	EE/CA Soil Removal Goal									
Arsenic	7440-38-2	2	2.5	2.4	3.1	2	2.4	1.8	4.5	3.4	4.3

Refer to notes page at end of tables for sources and definitions.

**Table B-5**  
**Groundwater Levels**  
**Caneel Bay Site**

Well	Coordinate Easting (ft, NAD 83)	Coordinate - Northing (ft, NAD 83)	TOC Elevation (ft)	Depth to Top of Screen (ft bTOC)	Well Screen Length (ft)	Total Well Length (ft bTOC)	11/18/2021		1/12/2022	
							Depth to Water (ft bTOC)	Water Table Elevation (ft)	Depth to Water (ft bTOC)	Water Table Elevation (ft)
MW-2-06	843421.637	1227727.877	21.885	12	5	17	10.02	11.87	11.16	10.73
MW-2-07	843458.643	1227720.442	19.719	12.5	5	17.5	5.78	13.94	6.45	13.27
MW-2-09	843496.146	1227690.035	17.25	10	5	15	8.44	8.81	8.85	8.40
MW-2-21	843817.836	1227511.592	6.385	10	5	15	4.05	2.34	3.64	2.75
MW-2-22	843783.437	1227429.63	5.104	8	10	18	2.09	3.01	2.8	2.30
Dug Well 1	843692.677	1227514.945	9.659	None	---	---	4.65	5.01	4.8	4.86
Dug Well 2	843921.673	1227455.208	6.415	None	---	---	4.8	1.62	4.8	1.62

**Table B-6A**  
**Summary of VOC Results in Groundwater**  
**Caneel Bay Site**

Sample Name:								MW-2-06	MW-2-06	MW-2-07	MW-2-07	MW-2-09
Sample Date:								11/17/2021	1/13/2022	11/17/2021	1/13/2022	11/17/2021
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL					
1,1,1-Trichloroethane	71-55-6	200	--	800	11	--	11	U,R 0.22	U 0.22	U,R 0.22	U 0.22	U,R 0.22
1,1,2,2-Tetrachloroethane	79-34-5	--	--	0.076	610	--	0.076	U,R 0.34	U 0.34	U,R 0.34	U 0.34	U,R 0.34
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	--	--	1000	--	--	1000	U,R 0.26	U 0.26	U,R 0.26	U 0.26	U,R 0.26
1,1,2-Trichloroethane	79-00-5	5	--	0.041	1200	--	0.041	U,R 0.33	U 0.33	U,R 0.33	U 0.33	U,R 0.33
1,1-Dichloroethane	75-34-3	--	--	2.8	47	--	2.8	U,R 0.28	U 0.28	U,R 0.28	U 0.28	U,R 0.28
1,1-Dichloroethene	75-35-4	7	--	28	25	--	7	U,R 0.29	U 0.29	U,R 0.29	U 0.29	U,R 0.29
1,2,4-Trichlorobenzene	120-82-1	70	--	0.4	24	--	0.4	U,R 0.82	U 0.82	U,R 0.82	U 0.82	U,R 0.82
1,2-Dibromo-3-chloropropane	96-12-8	0.2	--	0.00033	--	--	0.00033	U,R 1.5	U 1.5	U,R 1.5	U 1.5	U,R 1.5
1,2-Dibromoethane	106-93-4	0.05	0.02	0.0075	--	--	0.0075	U,R 0.28	U 0.28	U,R 0.28	U 0.28	U,R 0.28
1,2-Dichlorobenzene	95-50-1	600	--	30	0.7	--	0.7	U,R 0.38	U 0.38	U,R 0.38	U 0.38	U,R 0.38
1,2-Dichloroethane	107-06-2	5	3	0.17	100	--	0.17	U,R 0.32	U 0.32	U,R 0.32	U 0.32	U,R 0.32
1,2-Dichloropropane	78-87-5	5	--	0.82	--	--	0.82	U,R 0.24	U 0.24	U,R 0.24	U 0.24	U,R 0.24
1,3-Dichlorobenzene	541-73-1	--	--	--	71	--	71	U,R 0.25	U 0.25	U,R 0.25	U 0.25	U,R 0.25
1,4-Dichlorobenzene	106-46-7	75	--	0.48	15	--	0.48	U,R 0.27	U 0.27	U,R 0.27	U 0.27	U,R 0.27
2-Hexanone	591-78-6	--	--	3.8	99	--	3.8	U,R 1.3	U 1.3	U,R 1.3	U 1.3	U,R 1.3
4-Methyl-2-Pentanone	108-10-1	--	--	630	170	--	170	U,R 1.5	U 1.5	U,R 1.5	U 1.5	U,R 1.5
Acetone	67-64-1	--	--	1400	1500	--	1400	NJ 22.5	J 3.8	U,R 3.1	U 3.1	NJ 4
Benzene	71-43-2	5	1	0.46	46	--	0.46	U,R 0.23	U 0.23	U,R 0.23	U 0.23	U,R 0.23
Bromodichloromethane	75-27-4	80	--	0.13	--	--	0.13	U,R 0.27	U 0.27	U,R 0.27	U 0.27	U,R 0.27
Bromoform	75-25-2	80	--	3.3	320	--	3.3	U,R 0.4	U 0.4	U,R 0.4	U 0.4	U,R 0.4
Bromomethane	74-83-9	--	--	0.75	1300	--	0.75	U,R 0.39	U 0.39	U,R 0.39	J 0.45	U,R 0.39
Carbon disulfide	75-15-0	--	--	81	0.92	--	0.92	NJ 0.24	U 0.23	U,R 0.23	U 0.23	U,R 0.23
Carbon Tetrachloride	56-23-5	5	--	0.46	9.8	--	0.46	U,R 0.31	U 0.31	U,R 0.31	U 0.31	U,R 0.31
Chlorobenzene	108-90-7	100	--	7.8	1.3	--	1.3	U,R 0.19	U 0.19	U,R 0.19	U 0.19	U,R 0.19
Chloroethane	75-00-3	--	--	2100	--	--	2100	U,R 0.33	U 0.33	U,R 0.33	U 0.33	U,R 0.33
Chloroform	67-66-3	80	--	0.22	1.8	--	0.22	U,R 0.21	U 0.21	U,R 0.21	U 0.21	NJ 0.55
Chloromethane	74-87-3	--	--	19	--	--	19	U,R 0.31	U 0.31	U,R 0.31	U 0.31	U,R 0.31
cis-1,2-Dichloroethene	156-59-2	70	--	3.6	590	--	3.6	U,R 0.32	U 0.32	U,R 0.32	U 0.32	U,R 0.32
cis-1,3-Dichloropropene	10061-01-5	--	--	--	0.055	--	0.055	U,R 0.31	U 0.31	U,R 0.31	U 0.31	U,R 0.31
Cyclohexane	110-82-7	--	--	1300	--	--	1300	U,R 0.29	U 0.29	U,R 0.29	U 0.29	U,R 0.29
Dibromochloromethane	124-48-1	80	--	0.87	--	--	0.87	U,R 0.45	U 0.45	U,R 0.45	U 0.45	U,R 0.45
Dichlorodifluoromethane	75-71-8	--	--	20	--	--	20	U,R 0.33	U 0.33	U,R 0.33	U 0.33	U,R 0.33
Ethylbenzene	100-41-4	700	700	1.5	7.3	3.5	1.5	U,R 0.34	U 0.34	U,R 0.34	U 0.34	U,R 0.34
Isopropylbenzene	98-82-8	--	--	45	--	--	45	U,R 0.22	U 0.22	J 0.55	U 0.22	U,R 0.22
Methyl Acetate	79-20-9	--	--	2000	--	--	2000	U,R 0.32	U 0.32	U,R 0.32	U 0.32	U,R 0.32
Methyl ethyl ketone	78-93-3	--	--	560	7200	--	560	U,R 1.8	U 1.8	U,R 1.8	U 1.8	U,R 1.8
Methyl Tert-Butyl Ether	1634-04-4	--	--	14	10000	--	14	U,R 0.67	U 0.67	U,R 0.33	U 0.67	U,R 1.5
Methylcyclohexane	108-87-2	--	--	--	--	--	--	U,R 0.3	U 0.3	U,R 0.3	U 0.3	U,R 0.3
Methylene chloride	75-09-2	5	--	11	98.1	--	5	U,R 0.45	U 0.45	U,R 0.45	U 0.45	U,R 0.45
Styrene	100-42-5	100	--	120	72	930	72	U,R 0.24	U 0.24	U,R 0.24	U 0.24	U,R 0.24
Tetrachloroethene	127-18-4	5	--	4.1	50	--	4.1	U,R 0.35	U 0.35	U,R 0.35	U 0.35	U,R 0.35

Sample Name:								MW-2-06	MW-2-06	MW-2-07	MW-2-07	MW-2-09
Sample Date:								11/17/2021	1/13/2022	11/17/2021	1/13/2022	11/17/2021
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL					
Toluene	108-88-3	1000	1000	110	2	--	2	NJ 0.28	J 0.23	U,R 0.23	U 0.23	U,R 0.23
trans-1,2-Dichloroethene	156-60-5	100	--	6.8	590	--	6.8	U,R 0.26	U 0.26	U,R 0.26	U 0.26	U,R 0.26
trans-1,3-Dichloropropene	10061-02-6	--	--	--	0.055	--	0.055	U,R 0.29	U 0.29	U,R 0.29	U 0.29	U,R 0.29
Trichloroethene	79-01-6	5	--	0.28	21	--	0.28	U,R 0.33	U 0.33	U,R 0.33	U 0.33	U,R 0.33
Trichlorofluoromethane	75-69-4	--	--	520	--	--	520	U,R 0.24	U 0.24	U,R 0.24	U 0.24	U,R 0.24
Vinyl chloride	75-01-4	2	--	0.019	--	--	0.019	U,R 0.3	U 0.3	U,R 0.3	U 0.3	U,R 0.3
Xylenes, Total	1330-20-7	10000	10000	19	13	--	13	U,R 0.66	U 0.66	U,R 0.85	U 0.66	U,R 0.85

Refer to notes page at end of tables for sources and definitions.  
 U,R non-detect were rejected because they exceeded hold time and temperature requirements.



**Table B-6A**  
**Summary of VOC Results in Groundwater**  
**Caneel Bay Site**

Sample Name:								MW-2-09	MW-2-21	MW-2-22	MW-104	Dug Well 1	Dug Well 2
Sample Date:								1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL				Duplicate of MW-2-22		
1,1,1-Trichloroethane	71-55-6	200	--	800	11	--	11	U 0.22	U 0.22	U 0.22	U 0.22	U 0.22	U 0.22
1,1,2,2-Tetrachloroethane	79-34-5	--	--	0.076	610	--	0.076	U 0.34	U 0.34	U 0.34	U 0.34	U 0.34	U 0.34
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	--	--	1000	--	--	1000	U 0.26	U 0.26	U 0.26	U 0.26	U 0.26	U 0.26
1,1,2-Trichloroethane	79-00-5	5	--	0.041	1200	--	0.041	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33
1,1-Dichloroethane	75-34-3	--	--	2.8	47	--	2.8	U 0.28	U 0.28	U 0.28	U 0.28	U 0.28	U 0.28
1,1-Dichloroethene	75-35-4	7	--	28	25	--	7	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29
1,2,4-Trichlorobenzene	120-82-1	70	--	0.4	24	--	0.4	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82
1,2-Dibromo-3-chloropropane	96-12-8	0.2	--	0.00033	--	--	0.00033	U 1.5	U 1.5	U 1.5	U 1.5	U 1.5	U 1.5
1,2-Dibromoethane	106-93-4	0.05	0.02	0.0075	--	--	0.0075	U 0.28	U 0.28	U 0.28	U 0.28	U 0.28	U 0.28
1,2-Dichlorobenzene	95-50-1	600	--	30	0.7	--	0.7	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38
1,2-Dichloroethane	107-06-2	5	3	0.17	100	--	0.17	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32
1,2-Dichloropropane	78-87-5	5	--	0.82	--	--	0.82	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24
1,3-Dichlorobenzene	541-73-1	--	--	--	71	--	71	U 0.25	U 0.25	U 0.25	U 0.25	U 0.25	U 0.25
1,4-Dichlorobenzene	106-46-7	75	--	0.48	15	--	0.48	U 0.27	U 0.27	U 0.27	U 0.27	U 0.27	U 0.27
2-Hexanone	591-78-6	--	--	3.8	99	--	3.8	U 1.3	U 1.3	U 1.3	U 1.3	U 1.3	U 1.3
4-Methyl-2-Pentanone	108-10-1	--	--	630	170	--	170	U 1.5	U 1.5	U 1.5	U 1.5	U 1.5	U 1.5
Acetone	67-64-1	--	--	1400	1500	--	1400	J 3.2	U 3.1	U 3.1	U 3.1	J 3.4	J 5
Benzene	71-43-2	5	1	0.46	46	--	0.46	U 0.23	U 0.23	U 0.23	U 0.23	U 0.23	U 0.23
Bromodichloromethane	75-27-4	80	--	0.13	--	--	0.13	U 0.27	U 0.27	U 0.27	U 0.27	U 0.27	U 0.27
Bromoform	75-25-2	80	--	3.3	320	--	3.3	U 0.4	U 0.4	U 0.4	U 0.4	U 0.4	U 0.4
Bromomethane	74-83-9	--	--	0.75	1300	--	0.75	U 0.39	J 0.41	J 0.39	J 0.41	U 0.39	U 0.39
Carbon disulfide	75-15-0	--	--	81	0.92	--	0.92	J 0.48	U 0.23	U 0.23	U 0.23	J 0.92	U 0.23
Carbon Tetrachloride	56-23-5	5	--	0.46	9.8	--	0.46	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31
Chlorobenzene	108-90-7	100	--	7.8	1.3	--	1.3	U 0.19	U 0.19	U 0.19	U 0.19	U 0.19	U 0.19
Chloroethane	75-00-3	--	--	2100	--	--	2100	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33
Chloroform	67-66-3	80	--	0.22	1.8	--	0.22	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21
Chloromethane	74-87-3	--	--	19	--	--	19	U 0.31	U 0.31	J 0.39	U 0.31	U 0.31	U 0.31
cis-1,2-Dichloroethene	156-59-2	70	--	3.6	590	--	3.6	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32
cis-1,3-Dichloropropene	10061-01-5	--	--	--	0.055	--	0.055	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31
Cyclohexane	110-82-7	--	--	1300	--	--	1300	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29
Dibromochloromethane	124-48-1	80	--	0.87	--	--	0.87	U 0.45	U 0.45	U 0.45	U 0.45	U 0.45	U 0.45
Dichlorodifluoromethane	75-71-8	--	--	20	--	--	20	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33
Ethylbenzene	100-41-4	700	700	1.5	7.3	3.5	1.5	U 0.34	U 0.34	U 0.34	U 0.34	U 0.34	U 0.34
Isopropylbenzene	98-82-8	--	--	45	--	--	45	U 0.22	U 0.22	U 0.22	U 0.22	U 0.22	U 0.22
Methyl Acetate	79-20-9	--	--	2000	--	--	2000	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32
Methyl ethyl ketone	78-93-3	--	--	560	7200	--	560	U 1.8	U 1.8	U 1.8	U 1.8	U 1.8	U 1.8
Methyl Tert-Butyl Ether	1634-04-4	--	--	14	10000	--	14	U 0.67	J 0.47	J 0.64	J 0.67	U 0.67	U 0.67
Methylcyclohexane	108-87-2	--	--	--	--	--	--	U 0.3	U 0.3	U 0.3	U 0.3	U 0.3	U 0.3
Methylene chloride	75-09-2	5	--	11	98.1	--	5	U 0.45	U 0.45	U 0.45	U 0.45	U 0.45	U 0.45
Styrene	100-42-5	100	--	120	72	930	72	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24
Tetrachloroethene	127-18-4	5	--	4.1	50	--	4.1	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35

Sample Name:								MW-2-09	MW-2-21	MW-2-22	MW-104	Dug Well 1	Dug Well 2
Sample Date:								1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL				Duplicate of MW-2-22		
Toluene	108-88-3	1000	1000	110	2	--	2	U 0.23	U 0.23	U 0.23	U 0.23	U 0.23	U 0.23
trans-1,2-Dichloroethene	156-60-5	100	--	6.8	590	--	6.8	U 0.26	U 0.26	U 0.26	U 0.26	U 0.26	U 0.26
trans-1,3-Dichloropropene	10061-02-6	--	--	--	0.055	--	0.055	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29	U 0.29
Trichloroethene	79-01-6	5	--	0.28	21	--	0.28	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33
Trichlorofluoromethane	75-69-4	--	--	520	--	--	520	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24	U 0.24
Vinyl chloride	75-01-4	2	--	0.019	--	--	0.019	U 0.3	U 0.3	U 0.3	U 0.3	U 0.3	U 0.3
Xylenes, Total	1330-20-7	10000	10000	19	13	--	13	U 0.66	U 0.66	U 0.66	U 0.66	U 0.66	U 0.66

Refer to notes page at end of tables for sources and definitions.

U,R non-detect were rejected because they exceeded hold time and temperature requirements.

**Table B-6A**  
**Summary of VOC Results in Groundwater**  
**Caneel Bay Site**

Sample Name:								Trip Blank		Trip Blank	
Sample Date:								11/17/2021		1/13/2022	
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL				
1,1,1-Trichloroethane	71-55-6	200	--	800	11	--	11	U,R	0.22	U	0.22
1,1,2,2-Tetrachloroethane	79-34-5	--	--	0.076	610	--	0.076	U,R	0.34	U	0.34
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	--	--	1000	--	--	1000	U,R	0.26	U	1.26
1,1,2-Trichloroethane	79-00-5	5	--	0.041	1200	--	0.041	U,R	0.33	U	1.33
1,1-Dichloroethane	75-34-3	--	--	2.8	47	--	2.8	U,R	0.28	U	1.28
1,1-Dichloroethene	75-35-4	7	--	28	25	--	7	U,R	0.29	U	0.29
1,2,4-Trichlorobenzene	120-82-1	70	--	0.4	24	--	0.4	U,R	0.82	U	0.82
1,2-Dibromo-3-chloropropane	96-12-8	0.2	--	0.00033	--	--	0.00033	U,R	1.5	U	1.5
1,2-Dibromoethane	106-93-4	0.05	0.02	0.0075	--	--	0.0075	U,R	0.28	U	0.28
1,2-Dichlorobenzene	95-50-1	600	--	30	0.7	--	0.7	U,R	0.38	U	0.38
1,2-Dichloroethane	107-06-2	5	3	0.17	100	--	0.17	U,R	0.32	U	0.32
1,2-Dichloropropane	78-87-5	5	--	0.82	--	--	0.82	U,R	0.24	U	0.24
1,3-Dichlorobenzene	541-73-1	--	--	--	71	--	71	U,R	0.25	U	0.25
1,4-Dichlorobenzene	106-46-7	75	--	0.48	15	--	0.48	U,R	0.27	U	0.27
2-Hexanone	591-78-6	--	--	3.8	99	--	3.8	U,R	1.3	U	1.3
4-Methyl-2-Pentanone	108-10-1	--	--	630	170	--	170	U,R	1.5	U	1.5
Acetone	67-64-1	--	--	1400	1500	--	1400	U,R	3.1	U	3.1
Benzene	71-43-2	5	1	0.46	46	--	0.46	U,R	0.23	U	0.23
Bromodichloromethane	75-27-4	80	--	0.13	--	--	0.13	U,R	0.27	U	0.27
Bromoform	75-25-2	80	--	3.3	320	--	3.3	U,R	0.4	U	0.4
Bromomethane	74-83-9	--	--	0.75	1300	--	0.75	U,R	0.39	J	0.41
Carbon disulfide	75-15-0	--	--	81	0.92	--	0.92	U,R	0.23	U	0.23
Carbon Tetrachloride	56-23-5	5	--	0.46	9.8	--	0.46	U,R	0.31	U	0.31
Chlorobenzene	108-90-7	100	--	7.8	1.3	--	1.3	U,R	0.19	U	0.19
Chloroethane	75-00-3	--	--	2100	--	--	2100	U,R	0.33	U	0.33
Chloroform	67-66-3	80	--	0.22	1.8	--	0.22	U,R	0.21	U	0.21
Chloromethane	74-87-3	--	--	19	--	--	19	U,R	0.31	U	0.31
cis-1,2-Dichloroethene	156-59-2	70	--	3.6	590	--	3.6	U,R	0.32	U	0.32
cis-1,3-Dichloropropene	10061-01-5	--	--	--	0.055	--	0.055	U,R	0.31	U	0.31
Cyclohexane	110-82-7	--	--	1300	--	--	1300	U,R	0.29	U	0.29
Dibromochloromethane	124-48-1	80	--	0.87	--	--	0.87	U,R	0.45	U	0.45
Dichlorodifluoromethane	75-71-8	--	--	20	--	--	20	U,R	0.33	U	0.33
Ethylbenzene	100-41-4	700	700	1.5	7.3	3.5	1.5	U,R	0.34	U	0.34
Isopropylbenzene	98-82-8	--	--	45	--	--	45	U,R	0.22	U	0.22
Methyl Acetate	79-20-9	--	--	2000	--	--	2000	U,R	0.32	U	0.32
Methyl ethyl ketone	78-93-3	--	--	560	7200	--	560	U,R	1.8	U	1.8
Methyl Tert-Butyl Ether	1634-04-4	--	--	14	10000	--	14	U,R	0.33	U	0.67
Methylcyclohexane	108-87-2	--	--	--	--	--	--	U,R	0.3	U	0.3
Methylene chloride	75-09-2	5	--	11	98.1	--	5	U,R	0.45	U	0.45
Styrene	100-42-5	100	--	120	72	930	72	U,R	0.24	U	0.24
Tetrachloroethene	127-18-4	5	--	4.1	50	--	4.1	U,R	0.35	U	0.35

Sample Name:								Trip Blank		Trip Blank	
Sample Date:								11/17/2021		1/13/2022	
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground water	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL				
Toluene	108-88-3	1000	1000	110	2	--	2	U,R	0.23	U	0.23
trans-1,2-Dichloroethene	156-60-5	100	--	6.8	590	--	6.8	U,R	0.26	U	0.26
trans-1,3-Dichloropropene	10061-02-6	--	--	--	0.055	--	0.055	U,R	0.29	U	0.29
Trichloroethene	79-01-6	5	--	0.28	21	--	0.28	U,R	0.33	U	0.33
Trichlorofluoromethane	75-69-4	--	--	520	--	--	520	U,R	0.24	U	0.24
Vinyl chloride	75-01-4	2	--	0.019	--	--	0.019	U,R	0.3	U	0.3
Xylenes, Total	1330-20-7	10000	10000	19	13	--	13	U,R	0.85	U	0.66

Refer to notes page at end of tables for sources and definitions.  
 U,R non-detect were rejected because they exceeded hold time and temperature requirements.



**Table B-6B**  
**Summary of PAH Results in Groundwater**  
**Caneel Bay Site**

Sample Name:							MW-2-06	MW-2-06	MW-2-07	MW-2-07	MW-2-09	MW-2-09
Sample Date:							11/18/2021	1/13/2022	11/17/2021	1/13/2022	11/17/2021	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground-water	Tapwater RSL	NPS ESV Surface Water	Ground-water PAL						
Acenaphthene	83-32-9	--	20	53	5.8	5.8	NJ 0.068	U 1	NJ 0.15	U 1	U,R 0.15	U 1
Acenaphthylene	208-96-8	--	210	--	4800	210	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.18	U 1
Anthracene	120-12-7	--	2100	180	0.012	0.012	U,R 0.01	U 1	NJ 0.028	U 1	U,R 0.15	U 1
Benz(a)anthracene	56-55-3	--	0.05	0.03	0.018	0.018	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.17	U 1
Benz(a)pyrene	50-32-8	0.2	0.2	0.025	0.014	0.014	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.21	U 1
Benz(b)fluoranthene	205-99-2	--	0.05	0.25	9	0.05	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.13	U 1
Benz(g,h,i,)perylene	191-24-2	--	210	--	7.6	7.6	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.21	U 1
Benz(k)fluoranthene	207-08-9	--	0.5	2.5	0.0041	0.0041	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.18	U 1
Chrysene	218-01-9	--	4.8	25	0.0018	0.0018	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.15	U 1
Dibenz(a,h)anthracene	53-70-3	--	0.005	0.025	0.0034	0.0034	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.2	U 1
Fluoranthene (ldryl)	206-44-0	--	280	80	0.04	0.04	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.17	U 1
Fluorene	86-73-7	--	280	29	3	3	NJ 0.064	U 1	NJ 0.18	U 1	U,R 0.19	U 1
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.05	0.25	4.3	0.05	U,R 0.01	U 1	U,R 0.0097	U 1	U,R 0.12	U 1
Naphthalene	91-20-3	--	14	0.12	1.1	0.12	NJ 0.069	U 1	NJ 0.13	J 1	U,R 0.17	J 1
Phenanthrene	85-01-8	--	210	--	0.4	0.4	NJ 0.03	U 1	NJ 0.23	U 1	U,R 0.13	U 1
Pyrene	129-00-0	--	210	12	0.025	0.025	NJ 0.01	U 1	NJ 0.065	U 1	U,R 0.16	U 1

Refer to notes page at end of tables for sources and definitions.

**Table B-6B**  
**Summary of PAH Results in Groundwater**  
**Caneel Bay Site**

Sample Name:							MW-2-21	MW-2-22	MW-104	Dug Well 1	Dug Well 2
Sample Date:							1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground-water	Tapwater RSL	NPS ESV Surface Water	Ground-water PAL			Duplicate of MW-2-22		
Acenaphthene	83-32-9	--	20	53	5.8	5.8	U 1	U 1	U 1	U 1	U 1
Acenaphthylene	208-96-8	--	210	--	4800	210	U 1	U 1	U 1	U 1	U 1
Anthracene	120-12-7	--	2100	180	0.012	0.012	U 1	U 1	U 1	U 1	U 1
Benz(a)anthracene	56-55-3	--	0.05	0.03	0.018	0.018	U 1	U 1	U 1	U 1	U 1
Benz(a)pyrene	50-32-8	0.2	0.2	0.025	0.014	0.014	U 1	U 1	U 1	U 1	U 1
Benz(b)fluoranthene	205-99-2	--	0.05	0.25	9	0.05	U 1	U 1	U 1	U 1	U 1
Benz(g,h,i)perylene	191-24-2	--	210	--	7.6	7.6	U 1	U 1	U 1	U 1	U 1
Benz(k)fluoranthene	207-08-9	--	0.5	2.5	0.0041	0.0041	U 1	U 1	U 1	U 1	U 1
Chrysene	218-01-9	--	4.8	25	0.0018	0.0018	U 1	U 1	U 1	U 1	U 1
Dibenz(a,h)anthracene	53-70-3	--	0.005	0.025	0.0034	0.0034	U 1	U 1	U 1	U 1	U 1
Fluoranthene (ldryl)	206-44-0	--	280	80	0.04	0.04	U 1	U 1	U 1	U 1	U 1
Fluorene	86-73-7	--	280	29	3	3	U 1	U 1	U 1	U 1	U 1
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.05	0.25	4.3	0.05	U 1	U 1	U 1	U 1	U 1
Naphthalene	91-20-3	--	14	0.12	1.1	0.12	U 1	U 1	U 1	U 1	J 1.1
Phenanthrene	85-01-8	--	210	--	0.4	0.4	U 1	U 1	U 1	U 1	U 1
Pyrene	129-00-0	--	210	12	0.025	0.025	U 1	U 1	U 1	U 1	U 1

Refer to notes page at end of tables for sources and definitions.

**Table B-6C**  
**Summary of Metal Results in Groundwater**  
**Caneel Bay Site**

Sample Name:							MW-2-06	MW-2-07	MW-2-09	MW-2-21	MW-2-22	MW-104
Sample Date:							11/18/2021	11/17/2021	11/17/2021	11/18/2021	11/18/2021	11/18/2021
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground-water	Tapwater RSL	NPS ESV Surface Water	Ground-water PAL						Duplicate of MW-2-22
Arsenic	7440-38-2	10	10	0.052	3.1	0.052	---	---	---	U 1.1	U 1.1	U 1.1
Barium	7440-39-3	2000	--	3800	3.9	3.9	---	---	---	220	330	330
Lead	7439-92-1	15	15	15	0.92	0.92	U 0.74	U 0.74	U 0.74	U 0.74	U 0.74	U 0.74

Refer to notes page at end of tables for sources and definitions.

**Table B-6C**  
**Summary of Metal Results in Groundwater**  
**Caneel Bay Site**

Sample Name:							Dug Well 1	Dug Well 2
Sample Date:							1/13/2022	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	DPNR Ground-water	Tapwater RSL	NPS ESV Surface Water	Ground-water PAL		
Arsenic	7440-38-2	10	10	0.052	3.1	0.052	J 6.2	J 2.3
Barium	7440-39-3	2000	--	3800	3.9	3.9	310	400
Lead	7439-92-1	15	15	15	0.92	0.92	U 0.37	U 0.74

Refer to notes page at end of tables for sources and definitions.

**Table B-6D**  
**Summary of Pesticide Results in Groundwater**  
**Caneel Bay Site**

Sample Name:							MW-2-21	MW-2-22	MW-104	Dug Well 1	Dug Well 2
Sample Date:							1/13/2022	1/13/2022	1/13/2022	1/13/2022	1/13/2022
Analyte (µg/L)	CASN	Drinking Water MCL	Tapwater RSL	NPS ESV Surface Water	Vapor Intrusion RSL	Ground-water PAL					
4,4'-DDD	72-54-8	None	0.0063	0.011	None	0.0063	U 0.0069	U 0.0069	U 0.0071	U 0.0064	U 0.0064
4,4'-DDE	72-55-9	None	0.046	100	None	0.046	U 0.0025	U 0.0025	U 0.0026	U 0.0023	U 0.0023
4,4'-DDT	50-29-3	None	0.23	0.001	None	0.001	U 0.012	U 0.012	U 0.013	U 0.012	U 0.012
Aldrin	309-00-2	None	0.00092	0.3	0.32	0.00092	U 0.0025	U 0.0025	U 0.0026	U 0.0023	U 0.0023
alpha-BHC (alpha-Hexachlorocyclohexane)	319-84-6	None	0.0072	2.2	None	0.0072	U 0.003	U 0.003	U 0.0031	U 0.0028	U 0.0028
beta-BHC (beta-Hexachlorocyclohexane)	319-85-7	None	0.025	2.2	None	0.025	U 0.0058	U 0.0058	U 0.0059	U 0.0054	U 0.0054
cis-Chlordane (alpha-Chlordane)	5103-71-9	None	None	0.0043	None	0.0043	U 0.0077	U 0.0077	U 0.0079	U 0.0071	U 0.0071
delta-BHC (delta-Hexachlorocyclohexane)	319-86-8	None	None	2.2	None	2.2	U 0.0028	U 0.0028	U 0.0029	U 0.0026	U 0.0026
Dieldrin	60-57-1	None	0.0018	0.056	None	0.0018	U 0.0045	U 0.0045	U 0.0047	U 0.0042	U 0.0042
Endosulfan I	959-98-8/115-29-7	None	10	0.003	None	0.003	U 0.0055	U 0.0055	U 0.0056	U 0.0051	U 0.0051
Endosulfan II	33213-65-9	None	None	0.003	None	0.003	U 0.012	U 0.012	U 0.012	U 0.011	U 0.011
Endosulfan sulfate	1031-07-8	None	11	0.003	None	0.003	U 0.0087	U 0.0087	U 0.0089	U 0.008	U 0.008
Endrin	72-20-8	2	0.23	0.036	None	0.036	U 0.0058	U 0.0058	U 0.0059	U 0.0054	U 0.0054
Endrin aldehyde	7421-36-3	None	None	0.036	None	0.036	U 0.0074	U 0.0074	U 0.0076	U 0.0069	U 0.0069
Endrin ketone	53494-70-5	None	None	0.036	None	0.036	U 0.0097	U 0.0097	U 0.01	U 0.009	U 0.009
gamma-BHC (Lindane)	58-89-9	0.2	0.042	0.01	None	0.01	U 0.0046	U 0.0046	U 0.0048	U 0.0046	U 0.0046
gamma-Chlordane	5103-74-2	None	None	0.0043	None	None	U 0.0047	U 0.0047	U 0.0049	U 0.0044	U 0.0044
Heptachlor	76-44-8	0.4	0.0014	0.0038	None	0.0014	U 0.0057	U 0.0057	U 0.0058	U 0.0053	U 0.0053
Heptachlor epoxide	1024-57-3	0.2	0.0014	0.0038	None	0.0014	U 0.0038	U 0.0038	U 0.004	U 0.0036	U 0.0036
Methoxychlor	72-43-5	40	3.7	0.019	None	0.019	U 0.013	U 0.013	U 0.013	U 0.012	U 0.012
Toxaphene	8001-35-2	3	0.071	0.0002	None	0.0002	U 0.18	U 0.18	U 0.19	U 0.17	U 0.17

Refer to notes page at end of tables for sources and definitions.





## **ATTACHMENTS**

Attachment B-1 – Subsurface Utility Survey Report

Attachment B-2 – Soil Boring and Well Construction Logs

Attachment B-3 - Data Validation Reports/Laboratory Results

Attachment B-4- Field Activities Report



## **Attachment B-1 – Subsurface Utility Survey Report**



<b><u>Report Date</u></b> 12/8/2021	<b><u>Survey Date</u></b> Nov 8-19, 2021	<b><u>Type of Survey</u></b> Subsurface Utility Survey	<b><u>Project Name/JEBA #</u></b> JEB-3643	<b><u>Project Location</u></b> Caneel Bay Resort Site, National Park Service, St.John, USVI
<b>CLIENT</b>		On-Site Environmental, Inc		
<b>CLIENT POC</b> <b>(phone/email)</b>		Ricardo N. Alvarez, PE- President <a href="mailto:ralvarez@onsitepr.com">ralvarez@onsitepr.com</a>		
<b>SURVEY OBJECTIVE</b>		Quality Level B (ASCE Spec-3802) Subsurface Survey		

<b>SURVEY CREW</b>	Joel Hernandez - Utility Operator Michael Rivera- Survey Helper
<b>EQUIPMENT</b>	<ul style="list-style-type: none"> <li>➤ Location Equipment Subsite Ditch Witch 970T Transmitter &amp; 910R Receiver</li> <li>➤ Ground Penetrating Radar MALA Easy locator</li> <li>➤ GPS Equipment and RTK applications (Trimble R10)</li> </ul>



#### TYPE OF PROSPECTING

Type of prospecting

- ASCE Spec 3802 Quality Level B
- Prospecting with Ditch Witch utility locator and US Radar GPR methods.

**MARKINGS SURVEYED**    ☒ **Yes**    ☐ **No**

**HORIZONTAL TOLERANCE TO EDGE OF ASSET: +/- 2 ft.**

#### General Notes

- Reported information refers to utility owner record information. Records may include: previous construction plans in area, conduit maps, direct buried cable records, distribution and transmission maps, service record cards, "As-builts" and record drawings, field notes, county, city, utility owner or other geographic information system, circuit diagrams and verbal report.(CI/ASCE 38-02 5.1.2)
- Minimal intrusive (non-destructive) excavation method is a method of excavation that minimizes the potential damage to the structure being uncovered. Factors such as utility material and conditions may influence specific techniques. Typical techniques for utility exposures include air-entrainment/vacuum-extraction systems, water-jet/vacuum-extraction systems, and careful hand tool usage.(CI/ASCE 38-02 3.0)
- Designating is the process of using a surface geophysical method or methods to interpret the presence of a subsurface utility and to mark its approximate horizontal position (its designation) on the ground surface. (Note: Utility owners and contractors sometimes call this process "locating.") (CI/ASCE 38-02 3.0)
- All sampling location or proposed excavations shall be established away from the vicinity of confirmed and reported utilities.
- Client shall discuss the results of this survey with owner/owner representative, contractors and sub-contractors.
- Reported coordinates and elevations correspond to the above ground markings and at the actual underground assets unless specifically indicated. Nondestructive excavation methods shall be employed to determined actual depth of such utilities.
- 

Notes reference: Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data CI/ASCE 38-02 Abridged Version

#### DELIVERABLES

- ☐ **Field Report**  
☒ **Field Report, CAD & Media**

**UTILITY ASSET OPERATORS NOTIFIED (See table attached below):**



- ☒ NONE  
☐ WAPA  
☐ OTHER:

**Table: Notified entities and response**

Utility operators were not notified under the present task.





## **INTRODUCTION**

Javier E. Bidot & Associates, PSC, (JEBA) has been retained by On-Site Environmental, Inc for the underground utility survey of certain underground pipes to specification ASCE 3802 QL-B standards and methodology within Caneel Bay Resort Site. Please refer to the above figure for proposed survey limits and project areas to be coordinated with client on site.

## **PERIOD OF PERFORMANCE**

Mobilization and field survey was performed in coordination with client from November 8, 2021 through November 17, 2021, with a project submittal on December 9, 2021.

## **METHODOLOGY**

Subsurface assets were identified using Mala GPR, Ditch Witch 970t, 950r electronic utility locators and magnetometer. SUS/SUE activities rely on the interpretation of an instrument generated signal in order to designate an asset. Signals are affected by soil type, humidity, buried contamination and by the proximity of other assets to the subject and location with the effect of degrading the accuracy of the asset position and designation. Continuity of signal is required for most utility location methods if the utility is broken, change from conductive material to non-conductive, open circuits or if registries are sealed will impair the instrument capacity to locate. Unknown lines can be but are not limited to power, telecommunication, water, sanitary or storm pipes, combustible lines utilities or on some occasions buried rubble.

## **SUBSURFACE UTILITY FINDINGS**

The utility survey crew worked in coordination with Ricardo Alvarez from On-Site and Bob Osborne from VHB. Utilities were designated upon the implementation of the following prospecting techniques and technologies; active induction, direct connection, passive inspection and GPR (Ground Penetrating Radar).

Underground utilities such as, storm sewer, sanitary and underground power were found near proposed sampling locations. Few unknown lines were found while applying GPR. These may correspond to abandoned infrastructure, buried debris and/or any other potential asset not disclosed on the present subsurface utility designation. All designated assets were clearly marked on ground with spray paint and pin flags. Findings were discussed with client on site and are herein reported on the present submittal.

## **RECOMMENDATIONS AND CONCLUSIONS**

The subsurface utility survey services have been historically proven to provide a benefit to cost ratio better than 11 to 1. This benefit is solely based on the successful avoidance of the assets designated and informed on the survey report. It is our opinion that the drawings and report herein show the detectable subsurface utilities and assets on the project up to the quality level methodology employed. It is not a guarantee, however, that all possible underground assets were located so caution should be exercise especially around designated assets.

If higher accuracy location and confirmation of subsurface utility assets is desired, quality level A is required. Quality A utility designation will achieve precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Minimally intrusive (non-destructive) excavation equipment is typically used to minimize the potential for utility damage.

Non-destructive excavation is recommended for all sites therefore, client shall perform its excavation with workmanlike methods and extreme care in the vicinity of survey marks, and assume any contingency, direct and indirect liabilities as owner of the excavation.

Tolerance is referred to the edge of asset, utility marks are referred to signal peak. Pipes diameter and duct bank widths are necessary to determine tolerance zone.

GPR anomaly areas may indicate but are not limited to buried tanks, metal caps, high humidity soil or aquifer, excavations, high density soil, building foundations, presence of utilities or buried rubble.

































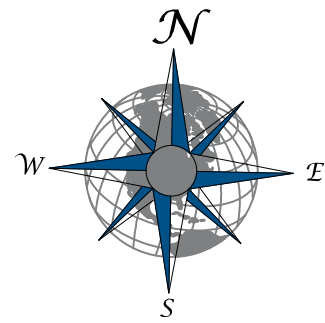




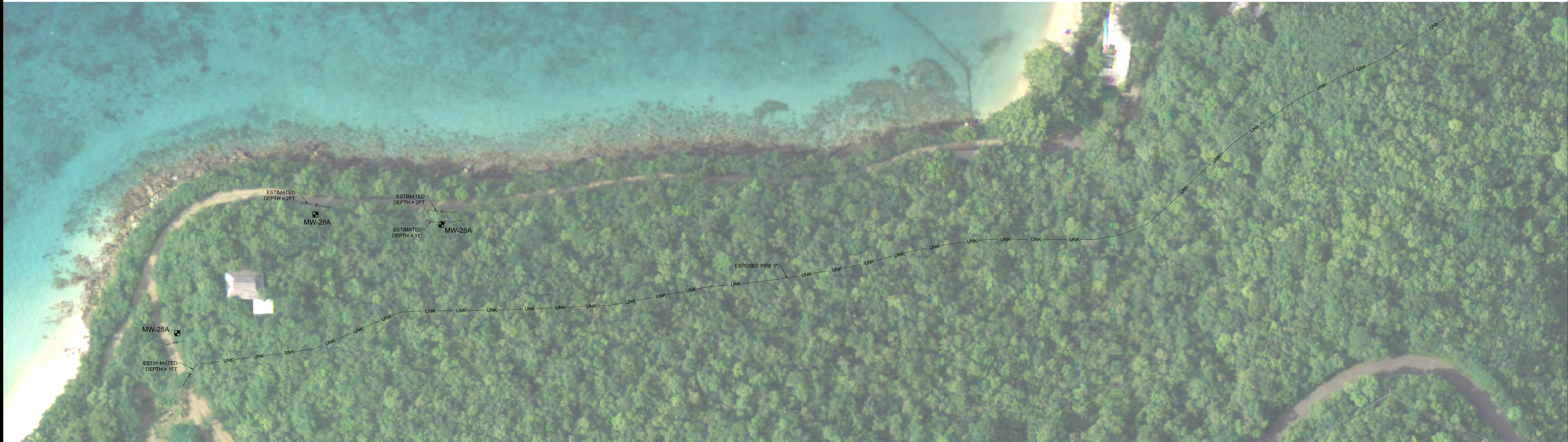








# SUBSURFACE UTILITY LOCATION SURVEY AND SUPPORT FOR PROPOSED SAMPLING LOCATIONS



MONITORING WELLS SURVEY					
MW ID	COORDINATES NAD 83 (2011)		COORDINATES		ELEVATION EXIST. GROUND (VIVID02)
	NORTHING	EASTING	LATITUDE	LONGITUDE	
A3-01	843004.271	1226039.187	18.34081513	-64.78999264	30.161
A3-02	842968.659	1226035.877	18.34071715	-64.79000311	29.772
A3-03	842932.801	1226028.394	18.34061859	-64.79002562	32.775
A3-04	842896.635	1226012.948	18.34051938	-64.79007109	32.903
A3-05	842854.980	1225996.461	18.34040509	-64.79011971	33.427
A3-06	842969.164	1226088.678	18.34077231	-64.78985033	35.444
A3-07	842952.752	1226082.607	18.34067219	-64.78986877	34.817
A3-08	842843.426	1226063.347	18.34037162	-64.78992714	33.530
A3-09	842881.675	1226055.827	18.34047713	-64.78994783	33.073
A3-10	842843.426	1226044.202	18.34037209	-64.78998235	31.577
A3-11	842879.210	1226108.488	18.34046904	-64.78979605	31.697
A3-12	842921.410	1226110.732	18.34058519	-64.78978849	36.173
MW-03-01	843152.263	1226023.235	18.34122305	-64.79003481	32.694
MW-03-02	842941.802	1226001.276	18.34064405	-64.79010358	29.496
MW-03-03	842878.677	1225988.014	18.34047055	-64.79014345	34.517
REF-01	842925.142	1226179.872	18.34059376	-64.78958902	51.086
REF-02	842866.604	1226198.734	18.34043209	-64.78953615	51.403
MW-REF-02B	843284.660	1226177.519	18.34158381	-64.78958950	25.842
MW-02-04	843462.393	1227671.369	18.34203626	-64.78527429	19.077
MW-02-02	843579.550	1228006.259	18.34235057	-64.78430557	23.201
MW-02-03	843417.436	1227711.813	18.34191146	-64.78515883	22.744
MW-02-04	843462.393	1227671.369	18.34203626	-64.78527429	19.077
MW-2-01	843557.908	1228153.044	18.34228733	-64.78388287	27.869
MW-REF-01	843511.122	1228315.478	18.34215447	-64.78341569	40.396
MW-REF-02	843273.449	1226001.276	18.34155730	-64.79009500	23.384

MONITORING WELLS SURVEY					
MW ID	COORDINATES NAD 83 (2011)		COORDINATES		ELEVATION EXIST. GROUND (VIVID02)
	NORTHING	EASTING	LATITUDE	LONGITUDE	
SC-1-01	843910.745	1228722.769	18.34324480	-64.78223085	67.116
SC-1-02	843869.078	1228786.198	18.34312848	-64.78204903	67.098
SC-1-03	843816.816	1228762.281	18.34298517	-64.78211936	64.891
SC-2-06	843421.463	1227727.457	18.34192216	-64.78511362	22.103
SC-2-07	843459.266	1227720.448	18.34202843	-64.78513285	19.813
SC-2-08	843423.769	1227757.715	18.34192776	-64.78502631	21.765
SC-2-09	843496.408	1227689.713	18.34212947	-64.78522051	17.602
SC-2-10	843394.673	1227739.632	18.34184809	-64.78507920	23.915
SC-2-11	843371.964	1227719.606	18.34178605	-64.78513754	28.968
SC-2-12	843394.56	1227690.319	18.34184900	-64.78522140	26.967
SC-2-13	843415.666	1227667.448	18.34190769	-64.78528681	25.069
SC-2-14	843345.346	1227669.766	18.34171399	-64.78528195	41.875
SC-2-15	843359.698	1227651.028	18.34175397	-64.78533561	42.020
SC-2-16	843373.483	1227633.708	18.34179236	-64.78538519	41.903
SC-2-17	843466.891	1227684.868	18.34204831	-64.78523524	18.850
SC-2-18	843344.892	1227756.351	18.34171059	-64.78503229	29.502
SC-2-19	843569.490	1227536.958	18.34233450	-64.78565909	12.514
SC-2-20	843518.754	1227612.642	18.34219291	-64.78544217	15.067
SC-2-21	843817.866	1227511.637	18.34301908	-64.78572566	6.489
SC-2-22	843783.409	1227429.554	18.34292623	-64.78596325	5.319
SC-C7-01	845139.322	1227007.098	18.34667044	-64.78714628	18.517
SC-C7-02	845147.352	1226998.062	18.34669278	-64.78717213	17.809
SC-C7-03	845164.283	1227015.330	18.34673897	-64.78712190	15.038

## LEGEND:

- △ CONTROL STATION
- MW-R MONITORING WELL
- STM — STORM SEWER LINE
- UW — UNDERGROUND WATER LINE
- UE — UNDERGROUND POWER LINE
- U/T — UNDERGROUND TELEPHONE LINE
- UNK — UNKNOWN UNDERGROUND LINE

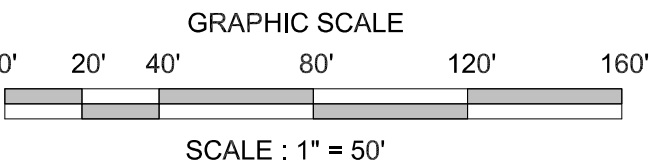
## LOCATION MAP

NOT TO SCALE



## SUBSURFACE UTILITY SURVEY - AREA 3

SCALE 1" = 50'



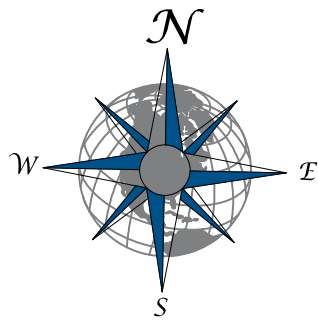
SURVEY CONTROL			
STATION	COORDINATES (NAD 83(2011))		DESCRIPTION
	NORTHING	EASTING	
3465-2	843437.627	1227703.823	BRONZE DISK
3465-3	843333.175	1227857.915	BRONZE DISK



Drawn by: J.P.	Survey Ref. No. PROJ-3643
Checked by: C. LEBRON	Field Date: NOV. 18, 2021
Revision Box	
Date:	Revision:

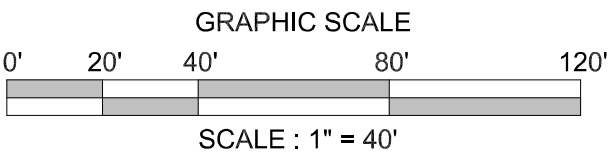
Copy Sent Date: DEC. 9, 2021	Prepared For: ONSITE ENVIRONMENTAL
Sheet 1 of 3	
Project Address: CAMEL BAY RESORT SITE	Project Name: SUBSURFACE UTILITY LOCATION SURVEY
Project Location: ST. JOHN, USVI	Job Number: JEB-3643





**SUBSURFACE UTILITY SURVEY - AREA 1 & 2**

SCALE 1" = 40'



SCALE : 1" = 40'

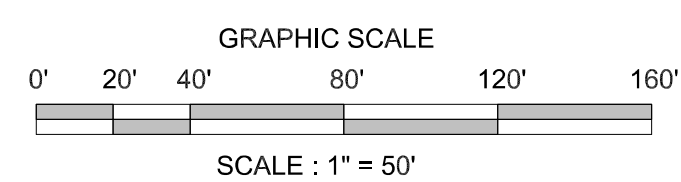


Drawn by: J.P.	Survey Ref. No. PROJ-3643
Checked by: G. LEBRON	Field Date: NOV. 18, 2021
Date:	Revision:

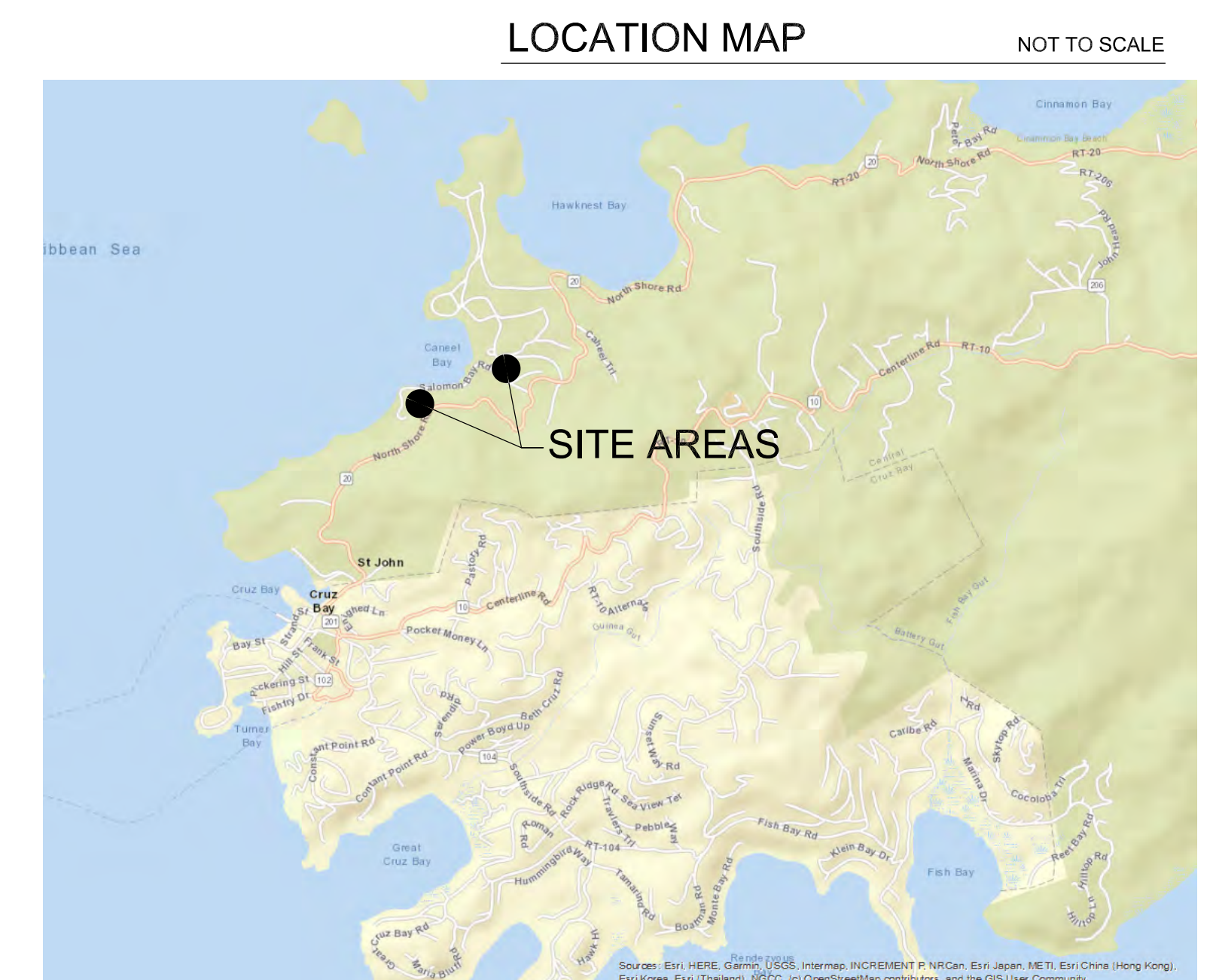
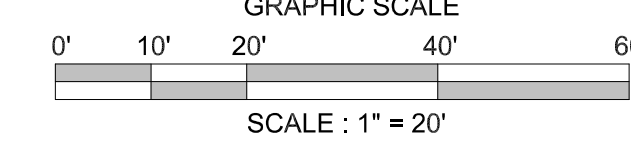
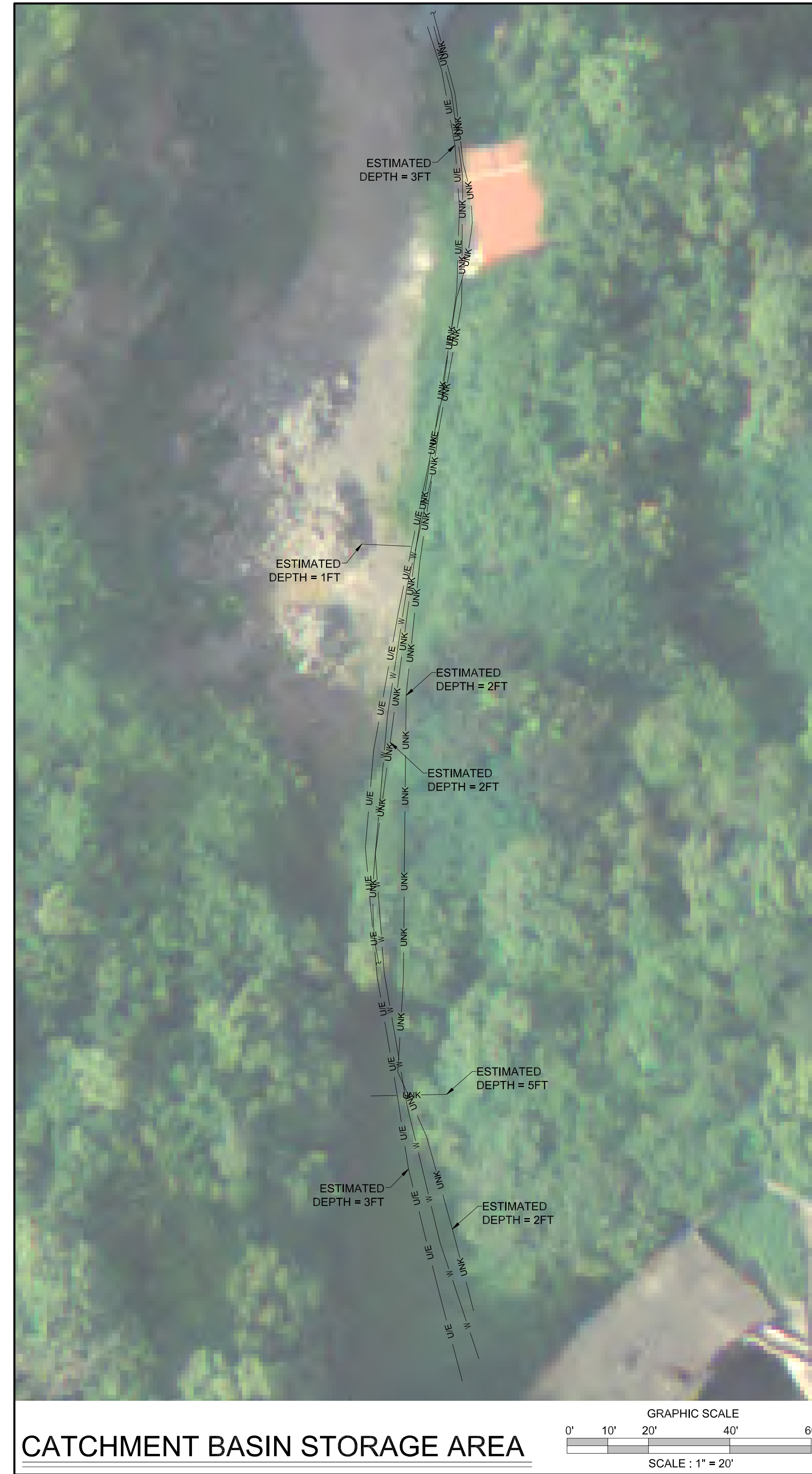
Copy Sent To: DEC. 9, 2021
Sheet 1 of 3
Project Address: CANEEL BAY RESORT SITE
Project Location: ST. JOHN, USVI


Prepared For: ONSITE ENVIRONMENTAL
Project Name: SUBSURFACE UTILITY LOCATION SURVEY
Job Number: JEB-3643





## SUBSURFACE UTILITY SURVEY



 <div><b>JAVIER E. BIDOT ASSOCIATES, PSC</b> <b>Land Surveyors &amp; Consultants</b> <small>18 Columbia St., Fort Lauderdale, FL 33322 Phone: (754) 566-6699, Fax: (754) 566-6643 www.jebidot.com</small></div>	Drawn by: J.P.	Survey Ref. No.: PROJ-3643	Copy Sent Dec. 9, 2021 <b>Sheet 1 of 3</b>	Prepared For: <b>ONSITE ENVIRONMENTAL</b>
	Checked by: C. LEBRON	Field Date: Nov. 18, 2021		
	Revision Box		Project Address: <b>CANEEL BAY RESORT SITE</b>	Project Name: <b>SUBSURFACE UTILITY LOCATION SURVEY</b>
	Date:	Revision:		
		Project Location: <b>ST. JOHN, USVI</b>	Job Number: <b>JEB-3643</b>	





## **Attachment B-2 – Soil Boring and Well Construction Logs**



# SC-1-01

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB

**Start Date:** Nov. 15, 2021

**End Date:** Nov. 15, 2021

**Well Logger:** N/A

**Date Installed:** N/A

**Easting (ft):** 1228723  
**Northing (ft):** 843910.7

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 67.116  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
67	0			dark brown silty SAND (SM), dry, tight, trace clay, trace small angular gravels, no visual or olfactory evidence of impacts		PID not working due to high heat and humidity, visual and olfactory evidence of contamination was used instead.
66	1				SC-1-01-0.5 + MS/MSD	
65	2	0.1	SILTY SAND			
64	3					
63	4					
62	5		NR	No Recovery		
61	6	0.1	SILTY SAND	red silty SAND (SM), some brown color dry, stiff		
60	7		SILTY SAND	red silty SAND (SM), some brown color dry, stiff, some angular gravels		
59	8		SAND	gray/red SAND (SM), fined-grained, little sand, dry, tight but crumbles		
58	9		SAND	dry, loose, poorly sorted SAND (SM) and small gravel		
57	10			fine tan SAND (SM), loose, dry		
56	11	0.1	NR	No Recovery		
55	12					
54	13					
53	14					
52	15		SAND	fine tan SAND (SM), loose, dry		
51	16	0.1	SAND	dark brown silty SAND (SM), dry, tight, trace clay, trace small angular gravels, no visual or olfactory evidence of impacts		
			SAND	fine tan SAND (SM), loose, dry, trace red clay		
			ROCK	fine, pulverized gray ROCK, dry, loose		
	17					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 17  
Borehole Diameter (in.): 8  
Well Diameter (in.): 2  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1



# SC-1-02

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 15, 2021  
**End Date:** Nov. 15, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1228786  
**Northing (ft):** 843869.1

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 67.098  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
66.8	0			dark brown/red, tight, dry, sandy SILT(ML)		
66.4	0.4		SANDY SILT		SC-1-02-0.5	
66.0	0.8			poorly sorted, gravelly SAND (SM) (possibly pulverized bedrock), dry, loose, refusal		
65.6	1.2					
65.2	1.6					
64.8	2.0					
64.4	2.4					
64.0	2.8					
63.6	3.2					
63.2	3.6					
62.8	4.0					
62.4	4.4				SC-1-02-4.3 + duplicate (SC-1-101)	
62.0	4.8					
61.6	5.2					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 4.3  
Borehole Diameter (in.): 8  
Well Diameter (in.): 8  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1

AR 003913



# SC-1-03

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 15, 2021  
**End Date:** Nov. 15, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1228762  
**Northing (ft):** 843816.8

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 64.891  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
64.8	0		SILTY SAND	dark brown organic horizon, silty SAND (SM), dry, loose, angular gravel layer		PID 0.1 throughout
64.4	0.4			light gravelly SAND (SM) dry, loose, refusal	SC-1-03-0.5	
64	0.8					
63.6	1.2					
63.2	1.6					
62.8	2		GRAVELLY SAND			
62.4	2.4	0.1				
62	2.8					
61.6	3.2					
61.2	3.6					
60.8	4				SC-1-03-4	
60.4	4.4					
60	4.8					
	5.2					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 4  
Borehole Diameter (in.): 8  
Well Diameter (in.): 8  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1

AR 003914





# SC/MW-2-06

Project: Caneel Bay Resort Site  
Location: St. John, U.S. Virgin Islands  
Project Number: 58345.21

Soil Logger: BRB  
Start Date: 11/9/2021  
End Date: 11/9/2021

Well Logger: BRB  
Date Installed: N/A

Easting (ft): 843421.5  
Northing (ft): 1227727

Horizontal Datum: NAD83  
Vertical Datum: NAVD88

Ground Elevation (ft): 22.103  
Reference Pt. Elevation (ft): 21.885

Elev. (ft)	Depth (ft)	PID (ppm)	Well Construction Details		Lithologic Description	Sample ID
22	0				Crushed ROCK (GP), gray, dry	
		.1			dark brown to black SILTY SAND (SM), dry grayish-red fine sand, trace small rounded gravels	
21	1				tan GRAVELY SAND (SW), dry, loose	
		.2			dark brown SILTY SAND (SM), dry, very stiff	
20	2				ROCK (GP) crushed by drilling	
		106.4			dark brown/gray/red SILT (ML), dry, very stiff, little fine and rounded gravel	
19	3					
18	4				No Recovery	
17	5				same as 2.4-3' (ML)	
		20			same as 0.4-1.2' (SM)	
16	6				same as 2.4-3' (ML) but has some pulverized gray rock	
		65				
15	7				grayish-blue fine-to-medium SAND (SP) with some silt, dry, loose, few angular pebbles throughout	
		1				
		25				
14	8				brownish-red SILT (ML), little fine sands, stiff, dry	
		56				
13	9				gray crushed ROCK (GP), gray, dry	
		10.6				
12	10				Same as 6.8-8.2' (SP)	
		10			reddish-gray SILTY SAND (SM), stiff, some white from leaching, dry	
11	11				gray/red/brown SILTY SAND (SM), loose, dry	
		10.1				
10	12				gray silty SILT (ML), dry, very stiff, few red sand grains. Gray rock layer between 13.5-13.6 ft.	
		9				
		10.5				
9	13				gray/red/brown SILTY SAND (SM), stiff - very stiff, dry, trace angular gravel	
		8				
		5.5			gray crushed ROCK (GP)	
7	15				gray/red GRAVELY SILT (ML), dry	
		4.3			gray SILT (ML) with few fine sand, dry	
6	16					
		5.6				
5	17					
		17				
		3.1				
18						

SC-2-06-18

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 18  
Borehole Diameter (in.): 8  
Well Diameter (in.): 1.5  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs): 15

Drawn by: ZPH  
Revision: 0  
Page 1 of 2



# SC/MW-2-07

Project: Caneel Bay Resort Site  
Location: St. John, U.S. Virgin Islands  
Project Number: 58345.21

Soil Logger: BRB  
Start Date: 11/10/2021  
End Date: 11/10/2021

Well Logger: BRB  
Date Installed: N/A

Easting (ft): 843459.3  
Northing (ft): 1227720

Horizontal Datum: NAD83  
Vertical Datum: NAVD88

Ground Elevation (ft): 19.813  
Reference Pt. Elevation (ft): 19.719

Elev. (ft)	Depth (ft)	PID (ppm)	Well Construction Details	Lithologic Description	Sample ID
19	0	3.7		Crushed stone/GRAVEL (GP) from roadway, gray, dry loose	
19	1	2.9		dark brown, some red, SILTY SAND (SM), few small gravel, stiff, dry	
18	2	2.1		brown, gray, red SAND (SW), loose, dry, few small gravels and little gray silt	
17	3	1.6		same as above (SW) but with more angular gravels	
16	4	90.8		red, brown, gray SILTY SAND (SM), loose, dry	
15	5	29.6		reddish-brown SILT (ML), very stiff, dry, little sand	
14	6	2.6		grayish-blue SILTY SAND (SM), dry, moderately stiff, highest PID	
13	7	5		No Recovery	
12	8			gray, fine SAND (SW), dry, loose	
11	9	165.5		grayish-blue SILTY SAND (SM), dry, moderately stiff	
10	10	11.9		reddish-brown SILT (ML), very stiff, dry, little sand. Bluish layer at 6.1-6.3 ft	
9	11	5.6		grayish-blue SILTY SAND (SM), dry, moderately stiff	
8	12	3.2		reddish-brown SILT (ML), very stiff, dry, little sand	
7	13	2.7		grayish-blue SILTY SAND (SM), dry, moderately stiff	
6	14	3		grayish-blue SILTY SAND (SM), dry, moderately stiff	
5	15	5		brownish gray SILTY SAND (SM), dry, very stiff	
4	16			bluish-gray SILTY SAND (SM), damp, loose-stiff. Impacted.	
3	17			gray/dark brown GRAVELY SAND (SW), loose angular gravel, wet.	
2	18			SILT (ML)	
1	19			bluish-gray layer of SILTY SAND (SM), damp, loose-stiff	
				gray/red/brown SILT (ML) with some fine sand, moist	
				reddish-gray, fine SILTY SAND (SM), stiff-very stiff, some angular gravels	
				No Recovery	
				dark brown to gray SILTY SAND (SM), medium stiff, damp	
				fine SAND with some silts (SM), wet, brown, loose	
				brown/red/gray SAND (SP), little silt, very stiff	

PID malfunctioning, possibly due to high humidity.

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 19  
Borehole Diameter (in.): 8  
Well Diameter (in.): 5  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs): 10.3

Drawn by: ZPH  
Revision: 0  
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AR 003916



# SC-2-08

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 10, 2021  
**End Date:** Nov. 10, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227758  
**Northing (ft):** 843423.8

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 21.765  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
21	0	0.5	SAND	dark brown, red fine to medium SAND (SW), loose, dry, some organics at top, some angular gravels		
20	1	0.5				
19	2		NR	No Recovery		
18	3					
17	4					
16	5		SILTY SAND	dark brown SILTY SAND (SM), dry, loose, medium stiff		
15	6		SILT	red SILT (ML), moist, with little fine sand, few angular gravels, stiff-very stiff		
14	7		GRAVELLY SAND	brownish-red GRAVELLY SAND (SW), loose, wet		water at 6.3 ft and 10 ft
13	8		SILTY SAND	gray/brown/red SILTY SAND (SM), moist-damp, loose		
12	9		SILT	red SILT (ML), moist, with little fine sand, few angular gravels, stiff-very stiff, loose		
11	10		NR	No Recovery		
10	11		GRAVELLY SILT	red SILT (ML) with gravel, wet, stiff		
9	12	0.4	GRAVEL	GRAVEL (GW), wet, large, angular		
8	13		SAND	gray SAND and angular gravel (SW), very coarse, wet, loose		
7	14		SILTY SAND	red SILT (ML) with sand and gravel, damp, stiff, some sand		
6	15		GRAVEL	GRAVEL (GW), damp, large, angular		
5	16		NR	No Recovery		
4	17					
3	18					
2	19					
1	20					
	21					

Drilling Company: OnSite Environmental  
 Drilling Method: Direct Push Technology (DPT)  
 Drilling Rig: Geoprobe 6620DT  
 Drilling Fluid: --

Borehole Depth (ft bgs): 20  
 Borehole Diameter (in.): 3  
 Well Diameter (in.): 3  
 Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
 Well Screen Interval (ft bgs): N/A  
 Depth to Groundwater (ft bgs):

Drawn by: ZH  
 Revision: 0  
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AR 003917



# SC/MW-2-09

Project: Caneel Bay Resort Site  
Location: St. John, U.S. Virgin Islands  
Project Number: 58345.21

Soil Logger: BRB  
Start Date: 11/10/2021  
End Date: 11/10/2021

Well Logger: BRB  
Date Installed: N/A

Easting (ft): 843496.4  
Northing (ft): 1227690

Horizontal Datum: NAD83  
Vertical Datum: NAVD88

Ground Elevation (ft): 17.602  
Reference Pt. Elevation (ft): 17.25

Elev. (ft)	Depth (ft)	PID (ppm)	Well Construction Details	Lithologic Description	Sample ID
17	0			dark brown ORGANIC (OL), fine sand, some roots, dry, loose	
	1			gray, crushed ROCK (GW)	
	2			dark brown SILT (ML), little fine sand, stiff-very stiff, dry, trace small gravel	
	3			brown/red, fine SILTY SAND (SM), some silt, loose-medium stiff, few angular gravels, dry	
	4			brown/red, fine SILTY SAND (SM), some silt, very stiff, few angular gravels, dry	
	5			No Recovery	
	6				SC-2-09-5
	7			reddish-brown SILT (ML) with many pockets/layers of blue/gray impacted material, dry, stiff	
	8				
	9		bentonite		
	10		sand		
	11			bluish-gray SILTY SAND (SM), dry-slightly damp, loose-stiff, few gravels, impacted layer. GLEY 2 4/58.	
	12		screen		
	13			red, very stiff SILT (ML) with some fine sands, dry	SC-2-09-13.5
	14			red SILTY SAND (SM), dry, very stiff	
	15			gray-red SILTY SAND (SM), dry, very stiff	
	16			red-gray SILTY SAND (SM), dry, stiff to slightly loose, pockets of blue gray. Pockets of white precipitate, potential water movement, few angular gravels	
	17				
	18				
	19				
	20				

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 20  
Borehole Diameter (in.): 8  
Well Diameter (in.): 1.5  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs): 10

Drawn by: ZPH  
Revision: 0  
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AR 003918





# SC-2-10

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 10, 2021  
**End Date:** Nov. 10, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227740  
**Northing (ft):** 843394.7

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 23.915  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
23	0	0.5	GRAVEL	Crushed rock (GP) with some organics		
	1	0.5	SILTY SAND	dark brown fine SILTY SAND (SM), dry, slightly tight		
			SAND	tan/brown SAND (SW), fine-coarse, dry, loose		
22	2	2	SILTY SAND	reddish-brown fine SILTY SAND (SM), dry, slightly tight		
			GRAVEL	crushed stone/GRAVEL (GP), dry		
21	3			No Recovery		
20	4		NR			
19	5	7.7	SILTY SAND	red SILTY SAND (SM) with some coarse white sands, dry, stiff, some grey/blue streaks of impacted material		
18	6	31	SILT	red SILT (ML) with streaks of gray impacted material, dry, stiff		
17	7	22				
		27.7	SILTY SAND	blue-gray SILTY SAND (SM), dry, loose		
16	8	17	GRAVEL	crushed stone/GRAVEL (GP), dry		
				blue-gray SILTY SAND (SM), dry, loose		
15	9	17.3	SILTY SAND			
		6.8	SILT	red SILT (ML) /clay, dry, stiff		
14	10	5		red SILT (ML) with little sand, dry, stiff, small pockets of blue-gray impacted material		
13	11	6.7	SILT			
12	12	10.4		brown/red/gray SILTY SAND (SM) with some angular gravel, dry, stiff-loose, small pockets of blue-gray impacted material		
11	13	48	SILTY SAND		SC-2-10-13	
10	14	18				
9	15	8	SILTY SAND	reddish-brown SILTY SAND (SM), dry, loose, some gravel		
			SILTY SAND	reddish-brown, SILTY SAND (SM), dry, loose, some sand		
8	16	5.9	SILT	red SILT (ML) with some patches of blue-green impacted material, dry, stiff		
			GRAVEL	GRAVEL (GW), dry, loose, poorly sorted		
7	17		SILTY GRAVEL	gray, red, brown GRAVEL, sand and silt (GM), some blue-gray		

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 17  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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AR 003919



# SC-2-11

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 10, 2021  
**End Date:** Nov. 10, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227720  
**Horizontal Datum:** NAD83  
**Northing (ft):** 843372  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 28.968  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
28.5	0	0.4	ORGANICS	dark brown ORGANICS (OL) layer, dark brown, fine-medium sand, some angular gray gravel, dry, loose		refusal at 10 ft (bedrock)
	0.5		GRAVEL	GRAVEL (GW), dry, loose, angular		
28	1	0.4	SAND	medium SAND (SW), red and brown, dry, loose		
27.5	1.5	0.5	SILT	dark brown SILT (ML), dry, stiff, little sand, one layer of angular gravel at 2.2-2.4'		
27	2					
26.5	2.5	0.5				
26	3					
25.5	3.5		NR	No Recovery		
25	4					
24.5	4.5					
24	5	23.6	SILT	dark brown to red SILT (ML) with some red clay and some fine sand. Patches of blue/green/gray silty sand and high PID, dry, stiff-loose		
23.5	5.5					
23	6	59.9				
22.5	6.5					
22	7	57.7	SILTY SAND	gray/blue/green SILTY SAND (SM), dry, stiff but can crumble		
21.5	7.5	100-156				
21	8					
20.5	8.5					
20	9					
19.5	9.5	52.8	SILTY SAND	gray/blue/green SILTY SAND (SM), dry, loose		
19	10					

SC-2-11-8 +  
duplicate  
(SC-2-102)MS/  
MD

SC-2-11-10

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 10  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-12

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 10, 2021  
**End Date:** Nov. 10, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227690  
**Northing (ft):** 843394.6

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 26.967  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
26.5	0			very dark brown SILTY SAND (SM), dry, very stiff		Drillers believed refusal was at 8 ft
26	0.5	0.7				
25.5	1					
25	1.5	1.2				
24.5	2		SILTY SAND			
24	2.5	4.2				
23.5	3					
23	3.5	84				
22.5	4		SILTY SAND	very dark brown SILTY SAND (SM), dry, very stiff. Some gray/blue impacted material		
22	4.5		NR	No Recovery		
21.5	5	34	SILTY CLAY	gray-blue SILTY CLAY (OL), dry, stiff		
21	5.5			dark brown SILTY SAND (ML), dry		
20.5	6	96	SILTY SAND			
20	6.5			gray-blue SILTY SAND (SM), dry, loose, more sand		
19.5	7	79	SILTY SAND			
19	7.5		SAND	blue-gray SAND (SW), fine, loose, dry		
18.5	8		SAND	gray-blue SILTY CLAY (OL) with few angular gravels, dry, stiff	SC-2-12-8	
18	8.5			angular GRAVEL with some gray/blue silt (GM), dry. Refusal.		
17.5	9	44	SILTY GRAVEL			
17	9.5					
	10					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 9.2  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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AR 003921



# SC-2-13

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 10, 2021  
**End Date:** Nov. 10, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227667  
**Northing (ft):** 843415.7

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 25.069  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
24.8	0			dark brown SILTY SAND (SM), very stiff, dry		
24.4	0.4	0.8	SILTY SAND			
24	0.8					
23.6	1.2	0.8				
23.2	1.6					
22.8	2			reddish brown and gray SILTY SAND (SM), very stiff, dry		
22.4	2.4	1.6	SILTY SAND			
22	2.8					
21.6	3.2			light brown/gray fine SILTY SAND (SM), loose, dry		
21.2	3.6	1.1	SILTY SAND			
20.8	4					
20.4	4.4	1.2				
20	4.8		NR	No Recovery		
19.6	5.2	1.1	SAND	gray fine SAND (SW), loose, gray, dry		
19.2	5.6		CLAY	red CLAY (CL), dry, stiff		
18.8	6	1.2	SAND	gray fine SAND (SW), loose, gray, dry	SC-2-13	
18.4	6.4		SAND	fine red SAND (SW), loose, gray, dry		
18	6.8		ROCK	pulverized BEDROCK (GP)		

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 7  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-14

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 11, 2021  
**End Date:** Nov. 11, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227670  
**Northing (ft):** 843345.3

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 41.875  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
41.6	0		ORGANICS	dark brown ORGANICS (OL) layer, silty sand, dry loose		PID malfunction, samples were collected based on visual and olfactory evidence. Refusal at 7.3 ft
41.2	0.4		SAND	dark brown SAND (SW) with some silt, trace organics, dry, loose		
40.8	0.8		SILTY SAND	dark brown SILTY SAND (SM), trace clay, little fine sand, dry, loose, tight		
40.4	1.2		ROCK	gray pulverized ROCK (GP) dry, loose		
40	1.6		SAND	grayish-green-olive fine SAND (SW), dry, loose, few small angular gravels		
39.6	2		ROCK	gray pulverized ROCK (GP), turned into a fine powder, dry, loose		
39.2	2.4		CLAY	olive CLAY (CL), stiff, dry. Slight petroleum odor.		
38.8	2.8		NR	No Recovery		
38.4	3.2		ROCK	gray pulverized ROCK (GP) dry, loose		
38	3.6		SAND	light brown fine SAND (SC), dry, loose. Few pockets of green clay with a petroleum odor.		
37.6	4		CLAY	green CLAY (CL), dry, stiff. Petroleum odor. Refusal.		
37.2	4.4					
36.8	4.8					
36.4	5.2					
36	5.6					
35.6	6					
35.2	6.4					
34.8	6.8					
34.4	7.2				SC-2-14-7.3	

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 7.3  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-15

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 11, 2021  
**End Date:** Nov. 11, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227651  
**Northing (ft):** 843359.7

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 42.02  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
42	0		ORGANICS	dark brown ORGANIC (OL) layer, dry, loose, fine sand		refusal at 3 ft
			GRAVEL	GRAVEL (GW), dry, loose, angular		
41.6	0.4					
41.2	0.8		SILTY SAND	dark brown SILTY SAND (SM), dry, stiff-fairly loose, trace brown clay, some angular gravel		
40.8	1.2					
40.4	1.6					
40	2		SAND	gray-olive fine-medium SAND (SP), dry, loose		
39.6	2.4	<0.4				
39.2	2.8		ROCK	gray crushed ROCK (GP), dry. Refusal.	SC-2-15-2.8	
38.8	3.2					
38.4	3.6					
38	4					
37.6	4.4					
37.2	4.8					
	5.2					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 3  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-16

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 11, 2021  
**End Date:** Nov. 11, 2021

**Easting (ft):** 1227634  
**Northing (ft):** 843373.5

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 41.903  
**Reference Pt. Elevation (ft):**

**Well Logger:** N/A  
**Date Installed:** N/A

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
41.6	0		ORGANICS	dark brown ORGANIC (OL) layer, fine sand, dry, loose		refusal at 2.4 ft
41.2	0.4			gray, fine-coarse SAND (SW), loose, dry, few small rounded pebbles. Refusal.		
40.8	0.8		SAND			
40.4	1.2					
40	1.6					
39.6	2					
39.2	2.4	<0.5			SC-2-16-2.4	
38.8	2.8					
38.4	3.2					
38	3.6					
37.6	4					
37.2	4.4					
36.8	4.8					
	5.2					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 2.4  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-17

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 11, 2021  
**End Date:** Nov. 11, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227685  
**Northing (ft):** 843466.9

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 18.85  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
18	0	3.3	ASPHALT	asphalt		boring stragically placed to determine if the trench is acting as a conduit, refusal at 20 ft
	2.5		GRAVELY SAND	dark brown GRAVELY SAND (GP), few coarse-grained sands, dry, stiff, few gravels		
	1		GRAVELLY SAND	GRAVELY SAND (SW), dry, loose		
			SAND	brown fine-coarse SAND (SW), dry, loose		
17	2	4	SILTY SAND	red SILTY SAND (SM), few small layers of angular gravels, very stiff		
16	3	4.2	GRAVEL	GRAVEL (GW), dry, loose, angular		
			SANDY SILT	red SANDY SILT (SM), few small layers of angular gravels, very stiff		
15	4		NR	No Recovery		
14	5	15.1	SILTY SAND	red SILTY SAND (SM), some clay, dry, stiff, small-large copious pockets of blue-gray-green impacted silts, few angular gravels throughout		
	6	16.3				
13	7	30				
12	8	110.5				
11	9					
10	10	379	GRAVELY SILT	gray-green-blue GRAVELY SILT (ML) with gravel, dry, loose-medium stiff	SC-2-17-9.5	
9	11	68	SILTY SAND	dark brown/red SILTY SAND (SM), dry, stiff		
8	12	82	SAND	SAND (SW) and gravel, dry, loose poorly sorted		
7	13	34	SILTY SAND	red SILTY SAND (SM), some clay, dry, stiff, small-large copious pockets of blue-gray-green impacted silts, few angular gravels throughout		
6	14		GRAVEL	crushed ROCK (GP) broken by drill rig		
5	15	2.7	SAND	red/brown SAND (SW) with some silts, fine-coarse, dry, loose		
4	16		ROCK	crushed stone (GP), dry		
3	17	2.4	SILTY SAND	red SILTY SAND (SM), some clay, dry, stiff, small-large copious pockets of blue-gray-green impacted silts, few angular gravels throughout		
2	18	1.1				
1	19	64	SILTY SAND	dark brown SILTY SAND (SM), tight, some green impacted pockets, dry		
0	20	26.2	SILTY SAND	reddish SILTY SAND (SM), patches of green impacted material, dry, stiff. Sandy gravel layer at 16-16.2 ft.		
		1.8				
		2.1		same as above (SM) but more sandy and loose. Green patches and petroleum odor, but impacted material looks more degraded.		
		1.8	SILTY SAND			
		0.6				
1	20				SC-2-17-20	

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 20  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: Macrocore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-18

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 11, 2021  
**End Date:** Nov. 11, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227756  
**Northing (ft):** 843344.9

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 29.502  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
29.5	0		SAND	dark brown/red fine SAND (SW), few round gravels, dry, loose, blocky		No observed impacts
29	0.5		GRAVEL	GRAVEL (GW), rounded, dry, loose		
28.5	1		SAND	brown/red/olive fine SAND (SW), loose, dry, few angular gravels		
28	1.5		GRAVEL	GRAVEL (GW), dry, loose, angular		
27.5	2		CLAY	red CLAY (CL), dry, loose		
27	2.5	<0.2				
26.5	3		SAND	brown/red/olive fine SAND (SW), loose, dry, few angular gravels		
26	3.5		CLAY	red CLAY (CL), dry, loose		
25.5	4			No Recovery		
25	4.5		NR			
24.5	5	<0.2	GRAVEL	angular GRAVEL (GM), dry, loose		SC-2-18-6.7
24	5.5		SILTY SAND	dark brown SILTY SAND (SM), tight, dry		
23.5	6					
23	6.5					
22.5	7			No Recovery		
22	7.5	<0.2				
21.5	8					
21	8.5		NR			
20.5	9					
20	9.5					
	10					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 6.7  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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AR 003927



# SC-2-19

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 12, 2021  
**End Date:** Nov. 12, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227537  
**Northing (ft):** 843569.5

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 12.514  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
0			ASPHALT	asphalt		
12				dark brown SILTY SAND (SM), little clay, dry, stiff		
1			SILTY SAND			
11				same as above (SM), but with some dark brown streaks		
2			SILTY SAND			
10		<10	ROCK	grey STONE (GP), dry, loose		
3				dark brown with dark brown streaks, SILTY SAND (SM), little clay, dry, stiff		
9			SILTY SAND			
4						
8			NR	No Recovery		
5			CLAY	red silty CLAY (CH), tight, dry		
7			SAND	dark grey fine to medium SAND (SW), dry, loose		
6			CLAY	red silty CLAY (CH), tight, dry, few small white gravels		
6						
7			SAND	dark grey fine to medium SAND (SW), dry, loose		
5		<10		red SILTY SAND (SM), some white and black sands and gravels throughout, view small layers of angular gravels, dry, stiff		
8			SILTY SAND			
4						
9						
3						
10			SILT	gray/red sandy SILT (ML), dry, stiff		
2			GRAVEL	gray small angular GRAVEL (GP), dry, loose		
11				white SILTY SAND (SM) and clay, white, dry, crumbly. Some red. The silt and clays are binding together in small sand-sized particles. Some fine "beach sand", too.		
1						
12						
0		<10				
13						
1						
14						
2						
15			SILTY SAND			
3						
16						
4						
17						
5		<10				
18						
6						
19						
7						
20					SC-2-19-20	

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 20  
Borehole Diameter (in.): 3  
Well Diameter (in.): 1.5  
Sampling Method: Macrocore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
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# SC-2-20

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 12, 2021  
**End Date:** Nov. 12, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227613  
**Northing (ft):** 843518.8

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 15.067  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
15	0		ASPHALT	pulverized asphalt		
				dark brown SILTY SAND (SM), dry, stiff		
14	1		SILTY SAND			
13	2		ROCK	grey ROCK (GP), dry, loose		
			CLAY	red CLAY (CL), V. stiff, dry, few silts		
12	3	<1		No Recovery		
11	4		NR			
10	5			red SILTY SAND (SM) with some red clay, dry, tight		
9	6		SILTY SAND			
8	7					
7	8	<1	CLAY	reddish-brown CLAY (CL) with few sands, tight, dry		
6	9		SILTY SAND	grayish-brown SILTY SAND (SM), dry, loose-slightly tight		
5	10		SAND	brown SAND (SP) with some silt, tight, dry		
4	11		SAND	brown/grey/red fine to medium SAND (SW), little silt, loose		
3	12					
2	13	<1	SILT	gray SILT (ML), little sand, dry, tight		
1	14		SAND	grey/blue fine to medium SAND (SW), dry, loose. No signs of petroleum impacts.		
			SAND	brown/grey/red fine to medium SAND (SW), little silt, loose		
15	15				SC-2-20-5	

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 15  
Borehole Diameter (in.): 3  
Well Diameter (in.): 3  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1



# SC/MW-2-21

Project: Caneel Bay Resort Site  
Location: St. John, U.S. Virgin Islands  
Project Number: 58345.21

Soil Logger: BRB  
Start Date: 11/16/2021  
End Date: 11/16/2021

Well Logger: BRB  
Date Installed: N/A

Easting (ft): 843817.9  
Northing (ft): 1227512

Horizontal Datum: NAD83  
Vertical Datum: NAVD88

Ground Elevation (ft): 6.489  
Reference Pt. Elevation (ft): 6.489

Elev. (ft)	Depth (ft)	PID (ppm)	Well Construction Details		Lithologic Description	Sample ID
0	0				dark brown, loose, dry	
6	1				more weathered, and silt/clay. dark brown silty SAND (SM), dry, tight but crumbles	
5	2				No Recovery	
4	3	0.1				
3	4				No Recovery	
2	5					
1	6				more weathered, and silt/clay. dark brown silty SAND (SM), damp, tight but crumbles	
0	7				gray silty CLAY(CL), wet, trace gravel, slightly loose, no evidence of impacts	
7	8				No Recovery	
1	9	0.1				
2	10				No Recovery	
3	11					
4	12				silty SAND (SM), gray, trace angular gravel, wet, slightly loose	
5	13				red CLAY(CL) with angular gravels, stiff, damp	
6	14				sandy GRAVEL(GM), gray, damp, loose	
7	15				white CLAY(CL) with some angular gravel, moist, stiff	
8	16				No Recovery	
9	17					
10	18				No Recovery	
11	19					
12	20				white CLAY(CL) with some angular gravel, wet, stiff, some fine-to-coarse sand	SC-2-21-15
13	21					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 15.4  
Borehole Diameter (in.): 8  
Well Diameter (in.): 1.5  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs): --

Drawn by: ZPH  
Revision: 0  
Page 1 of 1





# SC/MW-2-22

Project: Caneel Bay Resort Site  
Location: St. John, U.S. Virgin Islands  
Project Number: 58345.21

Soil Logger: BRB  
Start Date: 11/16/2021  
End Date: 11/16/2021

Well Logger: BRB  
Date Installed: N/A

Easting (ft): 843783.4  
Northing (ft): 1227430

Horizontal Datum: NAD83  
Vertical Datum: NAVD88

Ground Elevation (ft): 5.319  
Reference Pt. Elevation (ft): 5.319

Elev. (ft)	Depth (ft)	PID (ppm)	Well Construction Details		Lithologic Description	Sample ID
0	0		bentonite		dark brown, loose, dry	
6	1				more weathered, and silt/clay. dark brown silty SAND (SM), dry, tight but crumbles	
5	2		sand		No Recovery	
4	3				No Recovery	
3	4		screen		more weathered, and silt/clay. dark brown silty SAND (SM), damp, tight but crumbles	
2	5				gray silty CLAY(CL), wet, trace gravel, slightly loose, no evidence of impacts	
1	6		bentonite		No Recovery	
0	7				No Recovery	
7	8		sand		silty SAND (SM), gray, trace angular gravel, wet, slightly loose	
1	9				red CLAY(CL) with angular gravels, stiff, damp	
10	10		screen		sandy GRAVEL(GM), gray, damp, loose	
4	11				white CLAY(CL) with some angular gravel, moist, stiff	
5	12		bentonite		No Recovery	
6	13				No Recovery	
7	14		sand		white CLAY(CL) with some angular gravel, wet, stiff, some fine-to-coarse sand	SC-2-21-15
8	15					
9	16		screen			
10	17					
11	18		bentonite			
12	19					
13	20		sand			

PID malfunctioning, possibly due to high humidity.

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 18  
Borehole Diameter (in.): 8  
Well Diameter (in.): 1.5  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs): --

Drawn by: ZPH  
Revision: 0  
Page 1 of 1

AR 003931



# SC-C7-01

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 12, 2021  
**End Date:** Nov. 12, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227007  
**Northing (ft):** 845139.3

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 18.517  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
18	0		ORGANICS	ORGANIC soil horizon, dark brown sand, little silt, few organics, dry, loose, trace small angular gravel		UST was located at ~4', sampled at 5 ft (no evidence of impacts)
17	1			No Recovery		
16	2	<0.2				
15	3		NR			
14	4					
13	5		SILTY SAND	dark brown SILTY SAND (SM), dry, tight but crumbles easily, few small angular gravels	SC-C7-01-5	
12	6		GRAVEL	gray GRAVEL (GP), dry, loose, angular		
11	7	<0.2	SAND	gray (some dark brown) gravelly SAND (SP), some silt, loose, dry		
10	8			No Recovery		
9	9		NR			
8	10					
7	11		GRAVELLY SAND	gray GRAVELLY SAND (SW) (fine to coarse sand) dry, loose		
6	12	<0.2				
5	13					
4	14					
3	15					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 12.1  
Borehole Diameter (in.):  
Well Diameter (in.): AR 003932  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1



# SC-C7-02

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 12, 2021  
**End Date:** Nov. 12, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1226998  
**Northing (ft):** 845147.4

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 17.809  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
17	0	0.2	ORGANICS	dark brown ORGANIC (OL) layer, fine sand, organics, dry, tight but crumbles		
	0.1					
16	1	0.2	SILTY SAND	red/brown SILTY SAND (SM), dry, tight but crumbles		
	2	0.2	GRAVELLY SAND	gray GRAVEL AND SAND (GP), dry, loose		
15	3		NR	No Recovery		
14	4					
13	5		GRAVELLY SAND	gray GRAVELLY SAND (GP), dry, loose	SC-C7-02-5 + MS/MSD	MS and MSD collected at 5' for VOCs
12	6					
11	7		GRAVELLY SAND	gray GRAVELLY SAND with some grey silts (GM)		
10	8	<0.5				
9	9		GRAVELLY SAND			
8	10		NR	No Recovery		
7	11		GRAVELLY SAND	gray GRAVELLY SAND (GP), dry, loose		
6	12					
5	13	<0.5	GRAVELLY SAND	gray GRAVELLY SAND with some grey silts (GM)		
4	14					
3	15					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 13.7  
Borehole Diameter (in.):  
Well Diameter (in.): AR 003933  
Sampling Method: Macrocore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1



# SC-C7-03

**Project:** Caneel Bay Resort Site  
**Location:** St. John, U.S. Virgin Islands  
**Project Number:** 58345.21

**Soil Logger:** BRB  
**Start Date:** Nov. 12, 2021  
**End Date:** Nov. 12, 2021

**Well Logger:** N/A  
**Date Installed:** N/A

**Easting (ft):** 1227015  
**Northing (ft):** 845164.3

**Horizontal Datum:** NAD83  
**Vertical Datum:** NAVD88

**Ground Elevation (ft):** 15.038  
**Reference Pt. Elevation (ft):**

Elev. (ft)	Depth (ft)	PID (ppm)	Lithology	Lithologic Description	Sample ID	Notes
15	0			dark brown ORGANIC layer (OL), trace wood, dry, tight but crumbles, trace angular gravel		Boring sampled at bottom, PID below 0.2 throughout both cores
14.5	0.5		ORGANICS			
14	1					
13.5	1.5					
13	2		SILTY SAND	red and brown SILTY SAND (SM) dry, stiff		
12.5	2.5	<0.2	GRAVELLY SAND	GRAVELLY SAND (GP), dry, loose		
12	3			No Recovery		
11.5	3.5					
11	4		NR			
10.5	4.5					
10	5		ROCK CLAY	gray ROCK (GW), dry		
9.5	5.5			dark brown CLAY (CL), stiff, dry, trace fine sand		
9	6		GRAVELLY SAND	GRAVELLY SAND (GP), dry, loose		
8.5	6.5					
8	7				SC-C7-03-6.6 + duplicate(SC-C7-101)	
7.5	7.5	<0.2				
7	8					
6.5	8.5					
6	9					
5.5	9.5					
5	10					

Drilling Company: OnSite Environmental  
Drilling Method: Direct Push Technology (DPT)  
Drilling Rig: Geoprobe 6620DT  
Drilling Fluid: --

Borehole Depth (ft bgs): 6.6  
Borehole Diameter (in.):  
Well Diameter (in.): AR 003934  
Sampling Method: MacroCore Dual Tube

Filter Pack Interval (ft bgs): N/A  
Well Screen Interval (ft bgs): N/A  
Depth to Groundwater (ft bgs):

Drawn by: ZH  
Revision: 0  
Page 1 of 1





## **Attachment B-3 - Data Validation Reports/Laboratory Results**

The following data qualifiers were applied during data validation.

Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample-specific LOQ.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analyte has been "tentatively identified" or is "presumptively" present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was not detected above the reported concentration. The reported quantitation limit QL is approximate and may be inaccurate or imprecise.
R	The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

## SDG 3212409 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
SC-2-06-7	11/09/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-06-8	11/09/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-07-8.5	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-07-12.5	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-08-15	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-09-5	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-09-13.5	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-10-13	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-10-17	11/10/2021	HOLD	Primary
SC-2-11-8	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-101	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Duplicate
SC-2-102	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Duplicate

## Sample Delivery Group 3212409 – Data Review

SC-2-11-10	11/10/2021	HOLD	Primary
SC-2-12-8	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-13-6	11/10/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-14-7.3	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-15-2.8	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-16-2.4	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-17-9.5	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-17-20	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary
SC-2-18-6.7	11/11/2021	8270 SIM SW846 6020A SW846 8260C SW846 8270D	Primary
EB-SOIL-20211111	11/11/2021	SW846 8260C	Primary
TB-20211111	11/11/2021	SW846 6020A SW846 8260C SW846 8270D	Primary

### I. Holding Times

Samples were shipped to ALS Environmental Middletown, Pennsylvania. The COCs for the samples in SDG 3212409 listed the sample dates as 11/09/2021, 11/10/2021, and 11/11/2021. According to the COCs, the temperature of the cooler at receipt was 3°C. Two samples were placed on hold according to the COC. No qualification on sample results is warranted based on holding times requirements.

### Data Review

#### I. GC/MS Instrument Performance Check



No GC/MS Instrument Performance Checks (IPCs) were provided for the SDG.

## **II. Initial Calibration**

The initial calibration standards were not provided for the SDG.

## **III. Continuing Calibration**

The continuing calibration standards were not provided for the SDG.

## **IV. Blanks**

Eleven method blanks (3421457MB, 3423460MB, 3423462MB, 3423907MB, 3423937MB, 3426164MB, 3424293MB, 3425049MB, 3425429MB, 3425613MB, and 3426288MB) were analyzed for the samples in SDG 3212409. The method blanks did not have detections for any analytes; therefore, no qualification of the data is necessary.

## **V. Surrogate Percent Recovery Compounds**

Some reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3212409 did not meet QC criteria; therefore, the affected surrogates are qualified J;SUR.

## **VI. Matrix Spikes/ Matrix Spike Duplicates**

Sample SC-2-11-8 was used as the matrix spike (MS) and matrix spike duplicates (MSD). The MS/MSD was analyzed using method 8270D to identify the interaction of the sample matrix and analytes. The percent recovery was within QC limits; therefore, no qualification of the data is necessary. The relative percent differences were not within QC limits for acenaphthene and fluorene; therefore, the affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if ND).

Sample 3212923002 was analyzed using method 6020A to identify the interaction of the sample matrix and analytes; however, the analysis was completed using a matrix that is not site derived. Therefore, precision cannot be evaluated. All affected samples are qualified with J;MS and J;MSD (U;MS and U;MSD if ND).

Samples SC-2-11-8 and SC-2-15-2.8 were analyzed using method 6020A to identify the interaction of the sample matrix and analytes. The percent recovery was within QC limits; therefore, no qualification of the data is necessary. The relative percent differences were within QC limits for all analytes; therefore, no qualification is necessary.

## Sample Delivery Group 3212409 – Data Review

Sample 3212605001 was analyzed using method 6020A to identify the interaction of the sample matrix and analytes; however, the analysis was completed using a matrix that is not site derived. Therefore, precision cannot be evaluated. All affected samples are qualified with J;MS and J;MSD (U;MS and U;MSD if ND).

Sample SC-2-11-8 was analyzed using method 8260C to identify the interaction of the sample matrix and analytes. The percent recoveries were not within QC limits for the analytes below; therefore, all affected samples are qualified J;MS and/or J;MSD. The relative percent differences were not within QC limits for the analytes below; therefore, the affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if ND).

Qualifier	Analyte
MS and MSD	chlorobenzene
MS and MSD	chlorodibromoethane
MS and MSD	1,2-dichloropropene
MS and MSD	1,2-dibromomethane
MS and MSD	1,2-dichlorobenzene
MS and MSD	1,3-dichlorobenzene
MS and MSD	1,4-dichlorobenzene
MS and MSD	cis-1,2-dichloropropene
MS and MSD	trans-1,3-dichloropropene
MS and MSD	ethylbenzene
MS and MSD	MIBK
MS and MSD	styrene
MS and MSD	1,1,2,2-tetrachloroethane
MS and MSD	tetrachloroethane
MS and MSD	toluene
MS and MSD	total xylene
MS and MSD	1,2,4-trichlorobenzene
MS and MSD	1,1,2-trichloroethane
MS and MSD	o-xylene
MS and MSD	mp-xylene
MS	1,2,3-trichlorobenzene
MS	toluene-d8 (S)
MSD	isopropyl benzene
MS and MSD	1,2,4-trichlorobenzene

Sample SC-2-16-2.4 was analyzed using method 8260C to identify the interaction of the sample matrix and analytes. The percent recoveries were within QC limits for all analytes; therefore, no qualification was necessary. The relative percent differences were not within QC limits for 1,2-dichlorobenzene; 1,4-dichlorobenzene; freon 113; methyl acetate; styrene; 1,2,3-trichlorobenzene; and 1,2,4-trichlorobenzene; therefore, the affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if ND).

Sample SC-2-11-8 was analyzed using method 8260C to identify the interaction of the sample matrix and analytes. The percent recoveries were not within QC limits for methyl cyclohexane and 1,2-dichloroethane-d4 (S); therefore, all affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if ND). The relative percent differences were within QC limits for all analytes; therefore, no further qualification of the data was necessary.

#### **VII. Laboratory Control Sample/ Laboratory Control Sample Duplicates**

Laboratory control samples (LCS) samples were analyzed in SDG 3212409 using 8270D, 8270 SIM, and 6020A. Percent recoveries were within acceptable QC limits; therefore, no qualification of the data is necessary.

LCS/LCSD samples were analyzed using 8260C. Percent recoveries were not within acceptable QC limits for the analytes below; therefore, all affected samples are qualified J;LCS and/or J;LCSD (U;LCS and/or U;LCSD if ND). Relative percent differences were within QC limits for each analysis; therefore, no additional qualification of the data is necessary.

<b>Qualifier</b>	<b>Analyte</b>
LCS and LCSD	freon 113
LCS	methyl cyclohexane
LCS and LCSD	methyl acetate

#### **VIII. Regional Quality Assurance and Quality Control**

Samples SC-2-101 and SC-2-102 (primary samples (SC-2-08-15 and SC-2-11-8)) were designated as field duplicates. All the quality assurance and quality control criteria were met except for cyclohexane (40.78%); fluoranthene (41.76%); isopropylbenzene (26.92%); total lead (27.03%); methyl cyclohexane (51.40%); phenanthrene (29.23%); and pyrene (36.81%) results in sample SC-2-11-8. The results are qualified J;FD for the primary sample and J;FD for the field duplicate.

#### **IX. Completeness**

Prescribed field sampling of SDG 3212409 was completed according to the sampling design.

Laboratory analysis of SDG 3212409 using methods 8270D; 8270 SIM; 6020A; and 8260C, according to the COC, has met QA/QC limits with a completeness score of approximately 91%.

**X. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XI. Internal Standards**

Internal standard area counts for the samples were within the upper and lower quality control limits. No assessment of the data is necessary based on acceptable internal standard area counts.

**XII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. Discrepancies were identified in accuracy sections 6 and 7.

**XIII. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

**XIV. System Performance**

A review of instrument quality control performance was not conducted for SDG 3212409.

**XV. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

Multiple J flags were assigned; however, no data were rejected. Completeness goals were met.





**ALS Environmental**



301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - [www.alsglobal.com](http://www.alsglobal.com)

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

November 30, 2021

Ms. Rhonda Kay  
VHB - Vermont  
100 State Street  
Suite 600  
Montpelier, VT 05602

## Certificate of Analysis

Project Name: **2021-Caneel Bay Resort, Virgin Islands**

Workorder: **3212409**

Purchase Order:

Workorder ID: **VHB001|Caneel Bay USVI 11910**

Dear Ms. Kay:

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 13, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ben Deede

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Sarah S Leung  
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3212409001	SC-2-06-7	Solid	11/9/2021 16:30	11/13/2021 08:48	Collected by Client
3212409002	SC-2-06-8	Solid	11/9/2021 16:45	11/13/2021 08:48	Collected by Client
3212409003	SC-2-07-8.5	Solid	11/10/2021 09:25	11/13/2021 08:48	Collected by Client
3212409004	SC-2-07-12.5	Solid	11/10/2021 09:35	11/13/2021 08:48	Collected by Client
3212409005	SC-2-08-15	Solid	11/10/2021 10:10	11/13/2021 08:48	Collected by Client
3212409006	SC-2-09-5	Solid	11/10/2021 11:30	11/13/2021 08:48	Collected by Client
3212409007	SC-2-09-13.5	Solid	11/10/2021 11:35	11/13/2021 08:48	Collected by Client
3212409008	SC-2-10-13	Solid	11/10/2021 13:40	11/13/2021 08:48	Collected by Client
3212409009	SC-2-10-17	Solid	11/10/2021 13:20	11/13/2021 08:48	Collected by Client
3212409010	SC-2-11-8	Solid	11/10/2021 15:20	11/13/2021 08:48	Collected by Client
3212409011	SC-2-101	Solid	11/10/2021 07:00	11/13/2021 08:48	Collected by Client
3212409012	SC-2-102	Solid	11/10/2021 08:00	11/13/2021 08:48	Collected by Client
3212409013	SC-2-11-10	Solid	11/10/2021 15:25	11/13/2021 08:48	Collected by Client
3212409014	SC-2-12-8	Solid	11/10/2021 16:15	11/13/2021 08:48	Collected by Client
3212409015	SC-2-13-6	Solid	11/10/2021 16:30	11/13/2021 08:48	Collected by Client
3212409016	SC-2-14-7.3	Solid	11/11/2021 08:30	11/13/2021 08:48	Collected by Client
3212409017	SC-2-15-2.8	Solid	11/11/2021 09:00	11/13/2021 08:48	Collected by Client
3212409018	SC-2-16-2.4	Solid	11/11/2021 09:30	11/13/2021 08:48	Collected by Client
3212409019	SC-2-17-20	Solid	11/11/2021 13:55	11/13/2021 08:48	Collected by Client
3212409020	SC-2-18-6.7	Solid	11/11/2021 14:45	11/13/2021 08:48	Collected by Client
3212409021	EB-SOIL-20211111	Water	11/11/2021 15:30	11/13/2021 08:48	Collected by Client
3212409022	TB-20211111	Water	11/11/2021 00:00	11/13/2021 08:48	Collected by Client
3212409023	SC-2-17-9.5	Solid	11/11/2021 13:50	11/13/2021 08:48	Collected by Client

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## SAMPLE SUMMARY

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

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## PROJECT SUMMARY

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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### Workorder Comments

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Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

### Sample Comments

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Lab ID: 3212409003

Sample ID: SC-2-07-8.5

Sample Type: SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits.

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409001**  
Sample ID: **SC-2-06-7**

Date Collected: 11/9/2021 16:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	13.2	C	ug/kg	9.3	4.3	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Benzene	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Bromochloromethane	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Bromodichloromethane	ND	C	ug/kg	1.9	0.66	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Bromoform	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Bromomethane	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
2-Butanone	ND	C	ug/kg	9.3	3.0	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Carbon Disulfide	2.8	C	ug/kg	1.9	0.59	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Chlorobenzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Chlorodibromomethane	ND	C	ug/kg	1.9	0.63	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Chloroethane	ND	C	ug/kg	4.6	0.79	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Chloroform	ND	C	ug/kg	1.9	0.49	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Chloromethane	ND	C	ug/kg	1.9	0.51	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Cyclohexane	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	1.9	0.23	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	1.9	0.50	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,2-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,4-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	1.9	0.62	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	1.9	0.56	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	1.9	0.51	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	1.9	0.54	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Ethylbenzene	ND	C	ug/kg	1.9	0.63	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Freon 113	ND	U:MS U:MSD U: LCS U:LCSD	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
2-Hexanone	ND	C	ug/kg	9.3	2.6	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Isopropylbenzene	ND	C	ug/kg	1.9	0.57	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Methyl acetate	ND	U:MS U:MSD U: LCS U:LCSD	ug/kg	1.9	0.55	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E
Methyl cyclohexane	ND	U: LCS	ug/kg	1.9	0.52	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: 3212409001

Date Collected: 11/9/2021 16:30

Matrix: Solid

Sample ID: SC-2-06-7

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	9.3	3.5	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Methylene Chloride	ND	C	ug/kg	1.9	0.73	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Styrene	ND	U:MS U:MSD	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	1.9	0.52	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Tetrachloroethene	ND	C	ug/kg	1.9	0.56	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Toluene	ND	C	ug/kg	1.9	0.62	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Total Xylenes	ND	C	ug/kg	5.6	1.3	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
1,2,3-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.6	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
1,2,4-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.6	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	1.9	0.58	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	1.9	0.52	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Trichloroethene	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Vinyl Chloride	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
o-Xylene	ND	C	ug/kg	1.9	0.54	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
mp-Xylene	ND	C	ug/kg	3.7	0.77	SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	76.8	C	%	56 - 124		SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
4-Bromofluorobenzene (S)	82.9	C	%	51 - 128		SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Dibromofluoromethane (S)	82.1	C	%	62 - 123		SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
Toluene-d8 (S)	74.7	C	%	59 - 131		SW846 8260C	11/9/21 16:30 PDK	11/22/21 17:54	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Acenaphthylene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Anthracene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Chrysene	41.3J	C,J	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Fluoranthene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Fluorene	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	
Naphthalene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409001**  
Sample ID: **SC-2-06-7**

Date Collected: 11/9/2021 16:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	ND	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A
Pyrene	268	C	ug/kg	60.6	20.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	63.5	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A
Nitrobenzene-d5 (S)	66.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A
Terphenyl-d14 (S)	85.9	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:24	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	18.5	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	81.5	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	1.8	C	mg/kg	1.2	0.39	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:20	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409002**

Date Collected: 11/9/2021 16:45

Matrix: Solid

Sample ID: **SC-2-06-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	9.2	C	ug/kg	9.0	4.1	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Benzene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Bromochloromethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Bromodichloromethane	ND	C	ug/kg	1.8	0.64	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Bromoform	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Bromomethane	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
2-Butanone	ND	C	ug/kg	9.0	2.9	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Carbon Disulfide	ND	C	ug/kg	1.8	0.57	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Chlorobenzene	ND	U:MS U:MSD	ug/kg	1.8	0.46	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Chlorodibromomethane	ND	U:MS	ug/kg	1.8	0.61	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Chloroethane	ND	C	ug/kg	4.5	0.77	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Chloroform	ND	C	ug/kg	1.8	0.48	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Chloromethane	ND	C	ug/kg	1.8	0.50	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Cyclohexane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,2-Dibromo-3-chloropropane	ND	U:MS U:MSD	ug/kg	1.8	0.23	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,2-Dibromoethane	ND	U:MS U:MSD	ug/kg	1.8	0.49	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,2-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,3-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,4-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	1.8	0.60	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	1.8	0.54	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
cis-1,3-Dichloropropene	ND	U:MS U:MSD	ug/kg	1.8	0.50	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
trans-1,3-Dichloropropene	ND	U:MS U:MSD	ug/kg	1.8	0.52	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Ethylbenzene	ND	U:MS U:MSD	ug/kg	1.8	0.61	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Freon 113	ND	U: LCS U:LCSD	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
2-Hexanone	ND	C	ug/kg	9.0	2.5	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Isopropylbenzene	ND	U:MS	ug/kg	1.8	0.55	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Methyl acetate	ND	C	ug/kg	1.8	0.53	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	1.8	0.51	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409002**

Date Collected: 11/9/2021 16:45

Matrix: Solid

Sample ID: **SC-2-06-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U:MS U:MSD	ug/kg	9.0	3.4	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Methylene Chloride	ND	C	ug/kg	1.8	0.70	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Styrene	ND	U:MS U:MSD	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U:MS U:MSD	ug/kg	1.8	0.51	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Tetrachloroethene	ND	C	ug/kg	1.8	0.54	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Toluene	ND	C	ug/kg	1.8	0.60	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Total Xylenes	ND	U:MS U:MSD	ug/kg	5.4	1.3	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
1,2,3-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.5	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
1,2,4-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.5	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	1.8	0.56	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
1,1,2-Trichloroethane	ND	U:MS U:MSD	ug/kg	1.8	0.51	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Trichloroethene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Vinyl Chloride	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
o-Xylene	ND	U:MS U:MSD	ug/kg	1.8	0.52	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
mp-Xylene	ND	U:MS U:MSD	ug/kg	3.6	0.75	SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.4	C	%	56 - 124		SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
4-Bromofluorobenzene (S)	78.5	C	%	51 - 128		SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Dibromofluoromethane (S)	82	C	%	62 - 123		SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
Toluene-d8 (S)	75.8	J:MS	%	59 - 131		SW846 8260C	11/9/21 16:45 PDK	11/22/21 01:00	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U:MS U:MSD	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Acenaphthylene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Anthracene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Chrysene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Fluoranthene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Fluorene	ND	U:MS U:MSD	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Naphthalene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	
Phenanthrene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409002**

Date Collected: 11/9/2021 16:45

Matrix: Solid

Sample ID: **SC-2-06-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	58.4	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	77	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A
Nitrobenzene-d5 (S)	83.7	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A
Terphenyl-d14 (S)	89.4	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 08:50	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	17.1	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	82.9	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	5.3	C	mg/kg	1.1	0.37	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:45	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409003**

Date Collected: 11/10/2021 09:25

Matrix: Solid

Sample ID: **SC-2-07-8.5**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	16.7	C	ug/kg	9.9	4.6	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Benzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Bromochloromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Bromodichloromethane	ND	C	ug/kg	2.0	0.70	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Bromoform	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Bromomethane	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
2-Butanone	ND	C	ug/kg	9.9	3.2	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Carbon Disulfide	4.9	C	ug/kg	2.0	0.62	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Chlorobenzene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Chlorodibromomethane	ND	C	ug/kg	2.0	0.67	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Chloroethane	ND	C	ug/kg	5.0	0.84	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Chloroform	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Chloromethane	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Cyclohexane	11.2	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.0	0.25	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	2.0	0.54	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	2.0	0.66	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	2.0	0.59	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.57	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Ethylbenzene	ND	C	ug/kg	2.0	0.67	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Freon 113	ND	U:MS U:MSD U: LCS U:LCSD	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
2-Hexanone	ND	C	ug/kg	9.9	2.8	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Isopropylbenzene	10.6J	C,J	ug/kg	48.1	10.6	SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	
Methyl acetate	ND	U:MS U:MSD U: LCS U:LCSD	ug/kg	2.0	0.58	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Methyl cyclohexane	ND	U: LCS	ug/kg	48.1	14.4	SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409003**  
Sample ID: **SC-2-07-8.5**

Date Collected: 11/10/2021 09:25 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	9.9	3.8	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Methylene Chloride	ND	C	ug/kg	2.0	0.77	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Styrene	ND	U:MS U:MSD	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Tetrachloroethene	ND	C	ug/kg	2.0	0.59	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Toluene	ND	C	ug/kg	2.0	0.66	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Total Xylenes	ND	C	ug/kg	5.9	1.4	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2,3-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	5.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,2,4-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	5.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
1,1,2-Trichloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Trichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Trichlorofluoromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Vinyl Chloride	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
o-Xylene	ND	C	ug/kg	2.0	0.57	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
mp-Xylene	ND	C	ug/kg	4.0	0.82	SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.2	C	%	56 - 124		SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
4-Bromofluorobenzene (S)	127	C	%	51 - 128		SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Dibromofluoromethane (S)	80.3	C	%	62 - 123		SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
Toluene-d8 (S)	22.6	J:SUR	%	59 - 131		SW846 8260C	11/10/21 09:25 PDK	11/22/21 18:19	DPC	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.6	C	%	71 - 146		SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	
4-Bromofluorobenzene (S)	86.7	C	%	46 - 138		SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	
Dibromofluoromethane (S)	67	C	%	42 - 143		SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	
Toluene-d8 (S)	85.3	C	%	54 - 141		SW846 8260C	11/10/21 09:25 VLM	11/24/21 01:39	VLM	
<b>SEMIVOLATILES</b>										
Acenaphthene	79.2	J:MS J:MSD	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Acenaphthylene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Anthracene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Benzo(a)anthracene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Benzo(a)pyrene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A
Benzo(k)fluoranthene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409003**  
Sample ID: **SC-2-07-8.5**

Date Collected: 11/10/2021 09:25 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Chrysene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Fluoranthene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Naphthalene	ND	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Phenanthrene	228	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Pyrene	135	C	ug/kg	60.3	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	77.6	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Nitrobenzene-d5 (S)	81.6	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
Terphenyl-d14 (S)	97.5	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:16	GEC	A	
WET CHEMISTRY											
Moisture	17.6	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A	
Total Solids	82.4	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A	
METALS											
Lead, Total	1.9	C	mg/kg	1.1	0.35	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:49	RMD	A2	

Ms. Sarah S Leung  
Project Coordinator

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409004**  
Sample ID: **SC-2-07-12.5**

Date Collected: 11/10/2021 09:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	6.4J	C,J	ug/kg	9.9	4.6	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Benzene	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Bromochloromethane	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.0	0.70	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Bromoform	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Bromomethane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
2-Butanone	ND	C	ug/kg	9.9	3.2	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Carbon Disulfide	ND	C	ug/kg	2.0	0.62	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Chlorobenzene	ND	U:MS U:MSD	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Chlorodibromomethane	ND	U:MS	ug/kg	2.0	0.67	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Chloroethane	ND	C	ug/kg	4.9	0.84	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Chloroform	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Chloromethane	ND	C	ug/kg	2.0	0.54	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Cyclohexane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2-Dibromo-3-chloropropane	ND	U:MS U:MSD	ug/kg	2.0	0.25	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2-Dibromoethane	ND	U:MS U:MSD	ug/kg	2.0	0.53	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,3-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,4-Dichlorobenzene	ND	U:MS U:MSD	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.0	0.66	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.0	0.59	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
cis-1,3-Dichloropropene	ND	U:MS U:MSD	ug/kg	2.0	0.54	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
trans-1,3-Dichloropropene	ND	U:MS U:MSD	ug/kg	2.0	0.57	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Ethylbenzene	ND	U:MS U:MSD	ug/kg	2.0	0.67	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Freon 113	ND	U: LCS U:LCSD	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
		3								
2-Hexanone	ND	C	ug/kg	9.9	2.8	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Isopropylbenzene	ND	U:MS	ug/kg	2.0	0.60	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Methyl acetate	ND	C	ug/kg	2.0	0.58	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	2.0	0.55	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409004**  
Sample ID: **SC-2-07-12.5**

Date Collected: 11/10/2021 09:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	U:MS U:MSD	ug/kg	9.9	3.8	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Methylene Chloride	ND	C	ug/kg	2.0	0.77	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Styrene	ND	U:MS U:MSD	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,1,2,2-Tetrachloroethane	ND	U:MS U:MSD	ug/kg	2.0	0.55	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Tetrachloroethene	ND	C	ug/kg	2.0	0.59	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Toluene	ND	C	ug/kg	2.0	0.66	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Total Xylenes	ND	U:MS U:MSD	ug/kg	5.9	1.4	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2,3-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.9	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,2,4-Trichlorobenzene	ND	U:MS U:MSD	ug/kg	4.9	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
1,1,2-Trichloroethane	ND	U:MS U:MSD	ug/kg	2.0	0.55	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Trichloroethene	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Trichlorofluoromethane	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Vinyl Chloride	ND	C	ug/kg	2.0	0.49	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
o-Xylene	ND	U:MS U:MSD	ug/kg	2.0	0.57	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
mp-Xylene	ND	U:MS U:MSD	ug/kg	4.0	0.82	SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.8	C	%	56 - 124		SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
4-Bromofluorobenzene (S)	80.1	C	%	51 - 128		SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Dibromofluoromethane (S)	78.2	C	%	62 - 123		SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
Toluene-d8 (S)	75.2	J:MS	%	59 - 131		SW846 8260C	11/10/21 09:35 PDK	11/22/21 03:25	PDK	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	U:MS U:MSD	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Acenaphthylene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Anthracene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Benzo(a)anthracene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Benzo(a)pyrene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Benzo(k)fluoranthene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Chrysene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Fluoranthene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Fluorene	ND	U:MS U:MSD	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Naphthalene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Phenanthrene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409004**  
Sample ID: **SC-2-07-12.5**Date Collected: 11/10/2021 09:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	67.2	22.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	70.7	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Nitrobenzene-d5 (S)	85.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
Terphenyl-d14 (S)	85.9	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 09:41	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	26.0	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	74.0	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	1.7	C	mg/kg	1.3	0.44	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:52	RMD	A2

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409005**

Date Collected: 11/10/2021 10:10

Matrix: Solid

Sample ID: **SC-2-08-15**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10.1	4.7	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Benzene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Bromochloromethane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.0	0.72	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Bromoform	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Bromomethane	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
2-Butanone	ND	C	ug/kg	10.1	3.2	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Carbon Disulfide	ND	C	ug/kg	2.0	0.64	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.0	0.52	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	2.0	0.69	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Chloroethane	ND	C	ug/kg	5.1	0.86	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Chloroform	ND	C	ug/kg	2.0	0.54	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Chloromethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Cyclohexane	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.0	0.25	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.0	0.55	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.0	0.56	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.0	0.59	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Ethylbenzene	ND	U;MS U;MSD	ug/kg	2.0	0.69	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
2-Hexanone	ND	C	ug/kg	10.1	2.8	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Isopropylbenzene	ND	U;MS	ug/kg	2.0	0.62	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Methyl acetate	ND	C	ug/kg	2.0	0.60	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	2.0	0.57	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409005**  
Sample ID: **SC-2-08-15**

Date Collected: 11/10/2021 10:10 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	10.1	3.8	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Methylene Chloride	ND	C	ug/kg	2.0	0.79	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.0	0.57	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Tetrachloroethene	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Toluene	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	6.1	1.4	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.1	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.1	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.0	0.63	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.0	0.57	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Trichloroethene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Vinyl Chloride	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
o-Xylene	ND	U;MS U;MSD	ug/kg	2.0	0.59	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	4.0	0.84	SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.9	C	%	56 - 124		SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
4-Bromofluorobenzene (S)	80.4	C	%	51 - 128		SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Dibromofluoromethane (S)	79.3	C	%	62 - 123		SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
Toluene-d8 (S)	76.2	J;MS	%	59 - 131		SW846 8260C	11/10/21 10:10 PDK	11/22/21 04:19	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Acenaphthylene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Anthracene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Chrysene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Fluoranthene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Naphthalene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	
Phenanthrene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409005**

Date Collected: 11/10/2021 10:10

Matrix: Solid

Sample ID: **SC-2-08-15**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	58.3	19.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	72.6	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A
Nitrobenzene-d5 (S)	69.9	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A
Terphenyl-d14 (S)	77.6	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:07	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	14.8	J:FD	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	85.2	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	2.3	C	mg/kg	1.1	0.38	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:56	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409006**

Date Collected: 11/10/2021 11:30

Matrix: Solid

Sample ID: **SC-2-09-5**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	5.5J	C,J	ug/kg	9.0	4.1	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Benzene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Bromochloromethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Bromodichloromethane	ND	C	ug/kg	1.8	0.64	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Bromoform	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Bromomethane	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
2-Butanone	ND	C	ug/kg	9.0	2.9	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Carbon Disulfide	1.1J	C,J	ug/kg	1.8	0.56	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	1.8	0.61	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Chloroethane	ND	C	ug/kg	4.5	0.76	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Chloroform	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Chloromethane	ND	C	ug/kg	1.8	0.49	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Cyclohexane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	1.8	0.22	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	1.8	0.48	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	1.8	0.60	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	1.8	0.54	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.8	0.49	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.8	0.52	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Ethylbenzene	ND	U;MS U;MSD	ug/kg	1.8	0.61	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
2-Hexanone	ND	C	ug/kg	9.0	2.5	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Isopropylbenzene	1.2J	J;MS	ug/kg	1.8	0.55	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Methyl acetate	ND	C	ug/kg	1.8	0.53	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	1.8	0.50	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409006**  
Sample ID: **SC-2-09-5**

Date Collected: 11/10/2021 11:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	9.0	3.4	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Methylene Chloride	ND	C	ug/kg	1.8	0.70	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	1.8	0.50	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Tetrachloroethene	ND	C	ug/kg	1.8	0.54	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Toluene	ND	C	ug/kg	1.8	0.60	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	5.4	1.3	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.5	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.5	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	1.8	0.56	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	1.8	0.50	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Trichloroethene	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Vinyl Chloride	ND	C	ug/kg	1.8	0.45	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
o-Xylene	ND	U;MS U;MSD	ug/kg	1.8	0.52	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	3.6	0.74	SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	84.5	C	%	56 - 124		SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
4-Bromofluorobenzene (S)	68.3	C	%	51 - 128		SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Dibromofluoromethane (S)	81.5	C	%	62 - 123		SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
Toluene-d8 (S)	71.9	J;MS	%	59 - 131		SW846 8260C	11/10/21 11:30 PDK	11/22/21 04:45	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Acenaphthylene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Anthracene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Chrysene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Fluoranthene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Naphthalene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	
Phenanthrene	ND	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409006**

Date Collected: 11/10/2021 11:30

Matrix: Solid

Sample ID: **SC-2-09-5**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	72.1	C	ug/kg	55.0	18.7	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	70.1	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A
Nitrobenzene-d5 (S)	79.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A
Terphenyl-d14 (S)	88.3	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:33	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	14.3	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	85.7	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	1.3	C	mg/kg	1.1	0.36	SW846 6020A	11/18/21 22:30 SXC	11/19/21 16:59	RMD	A2

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409007**  
Sample ID: **SC-2-09-13.5**

Date Collected: 11/10/2021 11:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	5.2J	C,J	ug/kg	11.2	5.1	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Benzene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Bromochloromethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.2	0.79	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Bromoform	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Bromomethane	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
2-Butanone	ND	C	ug/kg	11.2	3.6	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Carbon Disulfide	ND	C	ug/kg	2.2	0.70	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.57	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	2.2	0.76	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Chloroethane	ND	C	ug/kg	5.6	0.95	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Chloroform	ND	C	ug/kg	2.2	0.59	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Chloromethane	ND	C	ug/kg	2.2	0.61	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Cyclohexane	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.2	0.28	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.2	0.60	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.2	0.75	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.2	0.67	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.2	0.61	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.2	0.65	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Ethylbenzene	ND	U;MS U;MSD	ug/kg	2.2	0.76	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
2-Hexanone	ND	C	ug/kg	11.2	3.1	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Isopropylbenzene	ND	U;MS	ug/kg	2.2	0.68	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Methyl acetate	ND	C	ug/kg	2.2	0.66	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	2.2	0.62	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409007**  
Sample ID: **SC-2-09-13.5**

Date Collected: 11/10/2021 11:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	11.2	4.2	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Methylene Chloride	ND	C	ug/kg	2.2	0.87	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.2	0.62	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Tetrachloroethene	ND	C	ug/kg	2.2	0.67	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Toluene	ND	C	ug/kg	2.2	0.75	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	6.7	1.6	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.6	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.6	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.2	0.69	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.2	0.62	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Trichloroethene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Vinyl Chloride	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
o-Xylene	ND	U;MS U;MSD	ug/kg	2.2	0.65	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	4.5	0.93	SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	83.1	C	%	56 - 124		SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
4-Bromofluorobenzene (S)	80.6	C	%	51 - 128		SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Dibromofluoromethane (S)	79.4	C	%	62 - 123		SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
Toluene-d8 (S)	73.6	J;MS	%	59 - 131		SW846 8260C	11/10/21 11:35 PDK	11/22/21 05:10	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Acenaphthylene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Anthracene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Chrysene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Fluoranthene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Naphthalene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	
Phenanthrene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409007**  
Sample ID: **SC-2-09-13.5**

Date Collected: 11/10/2021 11:35 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	57.7	19.6	SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	68	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A
Nitrobenzene-d5 (S)	67	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A
Terphenyl-d14 (S)	76.2	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 10:59	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	13.9	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	86.1	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	2.8	C	mg/kg	1.1	0.37	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:03	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

## ALS Environmental Laboratory Locations Across North America

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409008**

Date Collected: 11/10/2021 13:40

Matrix: Solid

Sample ID: **SC-2-10-13**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	21.9	C	ug/kg	10.3	4.7	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Benzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Bromochloromethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Bromodichloromethane	ND	C	ug/kg	2.1	0.73	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Bromoform	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Bromomethane	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
2-Butanone	ND	C	ug/kg	10.3	3.3	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Carbon Disulfide	ND	C	ug/kg	2.1	0.65	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Chlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Chlorodibromomethane	ND	C	ug/kg	2.1	0.70	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Chloroethane	ND	C	ug/kg	5.2	0.88	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Chloroform	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Chloromethane	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Cyclohexane	24.5	C	ug/kg	2.1	0.53	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.1	0.26	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	2.1	0.56	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	2.1	0.69	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Ethylbenzene	6.4	C	ug/kg	2.1	0.70	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Freon 113	ND	U;MS U;MSD U;LCS U;LCSD	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
2-Hexanone	ND	C	ug/kg	10.3	2.9	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Isopropylbenzene	49.6	C	ug/kg	2.1	0.63	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Methyl acetate	ND	U;MS U;MSD U;LCS U;LCSD	ug/kg	2.1	0.61	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E
Methyl cyclohexane	369	J;LCS	ug/kg	50.5	15.2	SW846 8260C	11/10/21 13:40 VLM	11/24/21 02:01	VLM	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409008**

Date Collected: 11/10/2021 13:40

Matrix: Solid

Sample ID: **SC-2-10-13**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10.3	3.9	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.1	0.80	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Toluene	ND	C	ug/kg	2.1	0.69	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Total Xylenes	ND	C	ug/kg	6.2	1.4	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.2	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.2	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.1	0.64	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Trichloroethene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
o-Xylene	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
mp-Xylene	ND	C	ug/kg	4.1	0.86	SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	75.1	C	%	56 - 124		SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
4-Bromofluorobenzene (S)	54	C	%	51 - 128		SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Dibromofluoromethane (S)	79.3	C	%	62 - 123		SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Toluene-d8 (S)	63.9	C	%	59 - 131		SW846 8260C	11/10/21 13:40 PDK	11/22/21 18:45	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	86.8	C	%	71 - 146		SW846 8260C	11/10/21 13:40 VLM	11/24/21 02:01	VLM		
4-Bromofluorobenzene (S)	85.2	C	%	46 - 138		SW846 8260C	11/10/21 13:40 VLM	11/24/21 02:01	VLM		
Dibromofluoromethane (S)	71.4	C	%	42 - 143		SW846 8260C	11/10/21 13:40 VLM	11/24/21 02:01	VLM		
Toluene-d8 (S)	88.9	C	%	54 - 141		SW846 8260C	11/10/21 13:40 VLM	11/24/21 02:01	VLM		
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Acenaphthylene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Anthracene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409008**  
Sample ID: **SC-2-10-13**

Date Collected: 11/10/2021 13:40 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Chrysene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Fluoranthene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Fluorene	61.1J	J:MS J:MSD	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Naphthalene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Phenanthrene	222	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Pyrene	ND	C	ug/kg	62.8	21.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	51.2	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Nitrobenzene-d5 (S)	71.5	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
Terphenyl-d14 (S)	70.2	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:25	GEC	A	
WET CHEMISTRY											
Moisture	22.9	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A	
Total Solids	77.1	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A	
METALS											
Lead, Total	2.9	C	mg/kg	1.2	0.39	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:07	RMD	A2	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409010**

Date Collected: 11/10/2021 15:20

Matrix: Solid

Sample ID: **SC-2-11-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	19.4	C	ug/kg	9.3	4.3	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Benzene	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Bromochloromethane	ND	C	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Bromodichloromethane	ND	C	ug/kg	1.9	0.66	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Bromoform	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Bromomethane	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
2-Butanone	ND	C	ug/kg	9.3	3.0	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Carbon Disulfide	ND	C	ug/kg	1.9	0.58	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Carbon Tetrachloride	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Chlorobenzene	ND	U;MS U;MSD	ug/kg	1.9	0.47	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Chlorodibromomethane	ND	U;MS U;MSD	ug/kg	1.9	0.63	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Chloroethane	ND	C	ug/kg	4.6	0.79	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Chloroform	ND	C	ug/kg	1.9	0.49	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Chloromethane	ND	C	ug/kg	1.9	0.51	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Cyclohexane	24.8	J;FD	ug/kg	1.9	0.47	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	1.9	0.23	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2-Dibromoethane	ND		ug/kg	1.9	0.50	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Dichlorodifluoromethane	ND		ug/kg	1.9	0.62	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,1-Dichloroethane	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2-Dichloroethane	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,1-Dichloroethene	ND		ug/kg	1.9	0.48	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.48	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2-Dichloropropane	ND		ug/kg	1.9	0.56	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.9	0.51	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.9	0.54	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409010**

Date Collected: 11/10/2021 15:20

Matrix: Solid

Sample ID: **SC-2-11-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Ethylbenzene	ND	U;MS U;MSD	ug/kg	1.9	0.63	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Freon 113	ND	U; LCS U;LCSD	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
2-Hexanone	ND		ug/kg	9.3	2.6	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Isopropylbenzene	11.8	J;MSD J;FD	ug/kg	1.9	0.56	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Methyl acetate	ND		ug/kg	1.9	0.55	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Methyl cyclohexane	J;FD 269	J;MS J;MSD	ug/kg	47.9	14.4	SW846 8260C	11/10/21 15:20 VLM	11/23/21 00:05	VLM	
Methyl t-Butyl Ether	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	9.3	3.5	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Methylene Chloride	ND		ug/kg	1.9	0.72	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Styrene	ND	U;MS U;MSD	ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	1.9	0.52	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Tetrachloroethene	ND	U;MS U;MSD	ug/kg	1.9	0.56	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Toluene	ND	U;MS U;MSD	ug/kg	1.9	0.62	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Total Xylenes	ND	U;MS U;MSD	ug/kg	5.6	1.3	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.6	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.6	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.57	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	1.9	0.52	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Trichloroethene	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Trichlorofluoromethane	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
Vinyl Chloride	ND		ug/kg	1.9	0.46	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I
o-Xylene	ND	U;MS U;MSD	ug/kg	1.9	0.54	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409010**  
Sample ID: **SC-2-11-8**

Date Collected: 11/10/2021 15:20 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
mp-Xylene	ND	U;MS U;MSD	ug/kg	3.7	0.77	SW846 8260C	11/10/21 15:20 PDK	11/22/21 05:36	PDK	I

Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78	J;MS J;MSD	%	56 - 124	SW846 8260C	11/10/21 15:20 PDK		11/22/21 05:36	PDK	I
4-Bromofluorobenzene (S)	82	C	%	51 - 128	SW846 8260C	11/10/21 15:20 PDK		11/22/21 05:36	PDK	I
Dibromofluoromethane (S)	78.9	C	%	62 - 123	SW846 8260C	11/10/21 15:20 PDK		11/22/21 05:36	PDK	I
Toluene-d8 (S)	60.6	J;MS	%	59 - 131	SW846 8260C	11/10/21 15:20 PDK		11/22/21 05:36	PDK	I

Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	69.2	J;SUR	%	71 - 146	SW846 8260C	11/10/21 15:20 VLM		11/23/21 00:05	VLM	
4-Bromofluorobenzene (S)	90	C	%	46 - 138	SW846 8260C	11/10/21 15:20 VLM		11/23/21 00:05	VLM	
Dibromofluoromethane (S)	62.2	C	%	42 - 143	SW846 8260C	11/10/21 15:20 VLM		11/23/21 00:05	VLM	
Toluene-d8 (S)	76.6	J;MS J;MSD	%	54 - 141	SW846 8260C	11/10/21 15:20 VLM		11/23/21 00:05	VLM	

### SEMIVOLATILES

Acenaphthene	ND	U;MS U;MSD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Acenaphthylene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Benzo(a)anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Benzo(a)pyrene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Benzo(k)fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Chrysene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Fluorene	J;FD 220	J;MS J;MSD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Naphthalene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Phenanthrene	396	J;FD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Pyrene	46.0J	J;FD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 11:51	GEC	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	73.8	C	%	40 - 110	SW846 8270D	11/15/21 18:30 JLH		11/18/21 11:51	GEC	A
Nitrobenzene-d5 (S)	74.2	C	%	38 - 112	SW846 8270D	11/15/21 18:30 JLH		11/18/21 11:51	GEC	A
Terphenyl-d14 (S)	91	C	%	45 - 126	SW846 8270D	11/15/21 18:30 JLH		11/18/21 11:51	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409010**  
Sample ID: **SC-2-11-8**

Date Collected: 11/10/2021 15:20 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>WET CHEMISTRY</b>										
Moisture	16.3	C,1	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	83.7	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	2.1	J:FD	mg/kg	1.1	0.37	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:36	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409011**  
Sample ID: **SC-2-101**

Date Collected: 11/10/2021 07:00 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	6.7J	C,J	ug/kg	11.9	5.5	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Benzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Bromochloromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.4	0.85	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Bromoform	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Bromomethane	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
2-Butanone	ND	C	ug/kg	11.9	3.8	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Carbon Disulfide	ND	C	ug/kg	2.4	0.75	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.4	0.61	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	2.4	0.81	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Chloroethane	ND	C	ug/kg	6.0	1.0	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Chloroform	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Chloromethane	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Cyclohexane	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.4	0.30	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.4	0.64	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.4	0.80	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.4	0.66	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.4	0.69	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Ethylbenzene	ND	U;MS U;MSD	ug/kg	2.4	0.81	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
2-Hexanone	ND	C	ug/kg	11.9	3.3	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Isopropylbenzene	ND	U;MS	ug/kg	2.4	0.73	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Methyl acetate	ND	C	ug/kg	2.4	0.70	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Methyl cyclohexane	ND	C,4	ug/kg	2.4	0.67	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409011**

Date Collected: 11/10/2021 07:00

Matrix: Solid

Sample ID: **SC-2-101**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	11.9	4.5	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Methylene Chloride	ND	C	ug/kg	2.4	0.93	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Styrene	ND	U;MS U;MSD	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.4	0.67	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Tetrachloroethene	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Toluene	ND	C	ug/kg	2.4	0.80	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Total Xylenes	ND	U;MS U;MSD	ug/kg	7.2	1.7	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.0	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.0	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.4	0.74	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.4	0.67	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Trichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Trichlorofluoromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Vinyl Chloride	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
o-Xylene	ND	U;MS U;MSD	ug/kg	2.4	0.69	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
mp-Xylene	ND	U;MS U;MSD	ug/kg	4.8	0.99	SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.4	C	%	56 - 124		SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
4-Bromofluorobenzene (S)	83.8	C	%	51 - 128		SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Dibromofluoromethane (S)	80.5	C	%	62 - 123		SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
Toluene-d8 (S)	77.3	J;MS	%	59 - 131		SW846 8260C	11/10/21 07:00 PDK	11/22/21 06:01	PDK	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	U;MS U;MSD	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Acenaphthylene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Anthracene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Benzo(a)anthracene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Benzo(a)pyrene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Benzo(k)fluoranthene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Chrysene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Fluoranthene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Fluorene	ND	U;MS U;MSD	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Naphthalene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Phenanthrene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409011**  
Sample ID: **SC-2-101**

Date Collected: 11/10/2021 07:00 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	65.0	22.1	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	20.3	J: SUR	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Nitrobenzene-d5 (S)	35.2	J: SUR	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
Terphenyl-d14 (S)	31.4	J: SUR	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:09	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	23.1	J: FD	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	76.9	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	2.3	C	mg/kg	1.2	0.40	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:29	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

KAK 12/05/2022

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409012**

Date Collected: 11/10/2021 08:00

Matrix: Solid

Sample ID: **SC-2-102**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	20.6	C	ug/kg	9.2	4.2	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Benzene	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Bromochloromethane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Bromodichloromethane	ND	C	ug/kg	1.8	0.66	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Bromoform	ND	C	ug/kg	1.8	0.48	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Bromomethane	ND	C	ug/kg	1.8	0.48	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
2-Butanone	6.2J	C,J	ug/kg	9.2	3.0	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Carbon Disulfide	ND	C	ug/kg	1.8	0.58	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	1.8	0.47	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.47	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Chlorodibromomethane	ND	J;MS	ug/kg	1.8	0.63	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Chloroethane	ND	C	ug/kg	4.6	0.78	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Chloroform	ND	C	ug/kg	1.8	0.49	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Chloromethane	ND	C	ug/kg	1.8	0.51	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Cyclohexane	16.4	J;FD	ug/kg	1.8	0.47	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	1.8	0.23	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	1.8	0.50	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	1.8	0.62	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	1.8	0.48	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	1.8	0.48	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	1.8	0.55	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.8	0.51	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	1.8	0.54	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Ethylbenzene	ND	U;MS U;MSD	ug/kg	1.8	0.63	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
2-Hexanone	ND	C	ug/kg	9.2	2.6	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Isopropylbenzene	9.0	J;MS J;FD	ug/kg	1.8	0.56	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Methyl acetate	ND	C	ug/kg	1.8	0.54	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Methyl cyclohexane	159	J;FD	ug/kg	1.8	0.52	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409012**

Date Collected: 11/10/2021 08:00

Matrix: Solid

Sample ID: **SC-2-102**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	9.2	3.5	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Methylene Chloride	ND	C	ug/kg	1.8	0.72	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Styrene	ND	U;MS U;MSD	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	1.8	0.52	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Tetrachloroethene	ND	C	ug/kg	1.8	0.55	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Toluene	ND	C	ug/kg	1.8	0.62	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Total Xylenes	ND	U;MS U;MSD	ug/kg	5.5	1.3	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.6	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.6	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,1,1-Trichloroethane	ND	C	ug/kg	1.8	0.57	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	1.8	0.52	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Trichloroethene	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Trichlorofluoromethane	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Vinyl Chloride	ND	C	ug/kg	1.8	0.46	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
o-Xylene	0.57J	J;MS J;MSD	ug/kg	1.8	0.54	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
mp-Xylene	ND	U;MS U;MSD	ug/kg	3.7	0.77	SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.7	C	%	56 - 124		SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
4-Bromofluorobenzene (S)	59.4	C	%	51 - 128		SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Dibromofluoromethane (S)	78.7	C	%	62 - 123		SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
Toluene-d8 (S)	60	J;MS	%	59 - 131		SW846 8260C	11/10/21 08:00 PDK	11/22/21 06:27	PDK	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	U;MS U;MSD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Acenaphthylene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Benzo(a)anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Benzo(a)pyrene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Benzo(k)fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Chrysene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Fluoranthene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Fluorene	J;FD 144	J;MS J;MSD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Naphthalene	ND	C	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Phenanthrene	295	J;FD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A

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Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409012**

Date Collected: 11/10/2021 08:00

Matrix: Solid

Sample ID: **SC-2-102**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	31.7J	J;FD	ug/kg	58.5	19.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	65.9	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Nitrobenzene-d5 (S)	68.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
Terphenyl-d14 (S)	84.2	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 13:34	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	16.2	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	83.8	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	1.6	J;FD	mg/kg	1.2	0.38	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:47	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409014**

Date Collected: 11/10/2021 16:15

Matrix: Solid

Sample ID: **SC-2-12-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	45.5	C	ug/kg	10.9	5.0	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Benzene	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Bromochloromethane	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.2	0.78	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Bromoform	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Bromomethane	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
2-Butanone	9.2J	C,J	ug/kg	10.9	3.5	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Carbon Disulfide	0.71J	C,J	ug/kg	2.2	0.69	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.56	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Chlorodibromomethane	ND	J;MS	ug/kg	2.2	0.74	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Chloroethane	ND	C	ug/kg	5.5	0.93	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Chloroform	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Chloromethane	ND	C	ug/kg	2.2	0.60	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Cyclohexane	32.9	C	ug/kg	2.2	0.56	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.2	0.27	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.2	0.59	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.2	0.73	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.2	0.66	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.2	0.60	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.2	0.63	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Ethylbenzene	1.8J	J;MS J;MSD	ug/kg	2.2	0.74	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
2-Hexanone	ND	C	ug/kg	10.9	3.1	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Isopropylbenzene	48.0	J;MS	ug/kg	2.2	0.67	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Methyl acetate	ND	C	ug/kg	2.2	0.64	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Methyl cyclohexane	185	C,1	ug/kg	2.2	0.61	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409014**

Date Collected: 11/10/2021 16:15

Matrix: Solid

Sample ID: **SC-2-12-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	10.9	4.2	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Methylene Chloride	ND	C	ug/kg	2.2	0.85	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.2	0.61	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Tetrachloroethene	ND	C	ug/kg	2.2	0.66	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Toluene	ND	C	ug/kg	2.2	0.73	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	6.6	1.5	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.5	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.5	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.2	0.68	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.2	0.61	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Trichloroethene	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Vinyl Chloride	ND	C	ug/kg	2.2	0.55	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
o-Xylene	ND	C	ug/kg	2.2	0.63	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	4.4	0.91	SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	75.4	C	%	56 - 124		SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
4-Bromofluorobenzene (S)	88.2	C	%	51 - 128		SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Dibromofluoromethane (S)	77.3	C	%	62 - 123		SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
Toluene-d8 (S)	71.6	J;MS	%	59 - 131		SW846 8260C	11/10/21 16:15 PDK	11/22/21 06:52	PDK	E	
SEMIVOLATILES											
Acenaphthene	288	J;MS J;MSD	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Acenaphthylene	148	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Anthracene	82.3	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Chrysene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Fluoranthene	21.9J	C,J	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Fluorene	732	J;MS J;MSD	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Naphthalene	35.6J	C,J	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	
Phenanthrene	1090	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409014**

Date Collected: 11/10/2021 16:15

Matrix: Solid

Sample ID: **SC-2-12-8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	59.4	C	ug/kg	56.4	19.2	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	72.1	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A
Nitrobenzene-d5 (S)	76.6	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A
Terphenyl-d14 (S)	95.5	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:00	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	13.6	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	86.4	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	1.6	C	mg/kg	1.1	0.36	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:51	RMD	A2

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409015**

Date Collected: 11/10/2021 16:30

Matrix: Solid

Sample ID: **SC-2-13-6**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	13.5	6.2	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Benzene	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Bromochloromethane	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.7	0.96	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Bromoform	ND	C	ug/kg	2.7	0.70	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Bromomethane	ND	C	ug/kg	2.7	0.70	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
2-Butanone	ND	C	ug/kg	13.5	4.3	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Carbon Disulfide	ND	C	ug/kg	2.7	0.85	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.7	0.69	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.7	0.69	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	2.7	0.92	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Chloroethane	ND	C	ug/kg	6.7	1.1	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Chloroform	ND	C	ug/kg	2.7	0.71	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Chloromethane	ND	C	ug/kg	2.7	0.74	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Cyclohexane	ND	C	ug/kg	2.7	0.69	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.7	0.34	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.7	0.73	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.7	0.90	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.7	0.70	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.7	0.70	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.7	0.81	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.7	0.74	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.7	0.78	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Ethylbenzene	ND	C	ug/kg	2.7	0.92	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
2-Hexanone	ND	C	ug/kg	13.5	3.8	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Isopropylbenzene	ND	U;MS	ug/kg	2.7	0.82	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Methyl acetate	ND	C	ug/kg	2.7	0.80	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Methyl cyclohexane	ND	C,1	ug/kg	2.7	0.75	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409015**

Date Collected: 11/10/2021 16:30

Matrix: Solid

Sample ID: **SC-2-13-6**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	13.5	5.1	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Methylene Chloride	ND	C	ug/kg	2.7	1.1	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.7	0.75	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Tetrachloroethene	ND	C	ug/kg	2.7	0.81	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Toluene	ND	C	ug/kg	2.7	0.90	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	8.1	1.9	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.7	0.84	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.7	0.75	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Trichloroethene	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Vinyl Chloride	ND	C	ug/kg	2.7	0.67	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
o-Xylene	ND	U;MS U;MSD	ug/kg	2.7	0.78	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	5.4	1.1	SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	74.5	C	%	56 - 124		SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
4-Bromofluorobenzene (S)	82.8	C	%	51 - 128		SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Dibromofluoromethane (S)	76	C	%	62 - 123		SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
Toluene-d8 (S)	77.2	J;MS	%	59 - 131		SW846 8260C	11/10/21 16:30 PDK	11/22/21 07:17	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Acenaphthylene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Anthracene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Chrysene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Fluoranthene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Naphthalene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	
Phenanthrene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409015**  
Sample ID: **SC-2-13-6**

Date Collected: 11/10/2021 16:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	60.4	20.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	80.9	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A
Nitrobenzene-d5 (S)	78.7	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A
Terphenyl-d14 (S)	86.9	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:26	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	18.3	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
Total Solids	81.7	C	%	0.1	0.01	S2540G-11		11/16/21 09:34	KMS	A
<b>METALS</b>										
Lead, Total	0.69J	C,J	mg/kg	1.1	0.36	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:54	RMD	A2

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409016**  
Sample ID: **SC-2-14-7.3**

Date Collected: 11/11/2021 08:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	17.3	C	ug/kg	12.8	5.9	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Benzene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Bromochloromethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Bromodichloromethane	ND	C	ug/kg	2.6	0.91	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Bromoform	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Bromomethane	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
2-Butanone	ND	C	ug/kg	12.8	4.1	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Carbon Disulfide	0.98J	C,J	ug/kg	2.6	0.81	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Carbon Tetrachloride	ND	C	ug/kg	2.6	0.65	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.6	0.65	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Chlorodibromomethane	ND	U;MS	ug/kg	2.6	0.87	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Chloroethane	ND	C	ug/kg	6.4	1.1	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Chloroform	ND	C	ug/kg	2.6	0.68	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Chloromethane	ND	C	ug/kg	2.6	0.70	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Cyclohexane	16.9	C	ug/kg	2.6	0.65	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.6	0.32	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.6	0.69	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Dichlorodifluoromethane	ND	C	ug/kg	2.6	0.86	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,1-Dichloroethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,2-Dichloroethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,1-Dichloroethene	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
1,2-Dichloropropane	ND	C	ug/kg	2.6	0.77	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.6	0.70	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.6	0.74	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Ethylbenzene	2.5J	J;MS J;MSD	ug/kg	2.6	0.87	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
2-Hexanone	ND	C	ug/kg	12.8	3.6	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Isopropylbenzene	14.5	J;MS	ug/kg	2.6	0.78	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Methyl acetate	ND	C	ug/kg	2.6	0.75	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Methyl cyclohexane	108	C,1	ug/kg	2.6	0.72	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409016**  
Sample ID: **SC-2-14-7.3**

Date Collected: 11/11/2021 08:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	12.8	4.9	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Methylene Chloride	ND	C	ug/kg	2.6	1.0	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.6	0.72	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Tetrachloroethene	ND	C	ug/kg	2.6	0.77	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Toluene	ND	C	ug/kg	2.6	0.86	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Total Xylenes	ND	U;MS U;MSD	ug/kg	7.7	1.8	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.4	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.4	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.6	0.79	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.6	0.72	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Trichloroethene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Trichlorofluoromethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Vinyl Chloride	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
o-Xylene	ND	U;MS U;MSD	ug/kg	2.6	0.74	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
mp-Xylene	ND	U;MS U;MSD	ug/kg	5.1	1.1	SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.1	C	%	56 - 124		SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
4-Bromofluorobenzene (S)	76.3	C	%	51 - 128		SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Dibromofluoromethane (S)	79.4	C	%	62 - 123		SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
Toluene-d8 (S)	66.2	J;MS	%	59 - 131		SW846 8260C	11/11/21 08:30 PDK	11/22/21 07:43	PDK	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Acenaphthylene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Anthracene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Chrysene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Fluoranthene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Naphthalene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	
Phenanthrene	205	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409016**

Date Collected: 11/11/2021 08:30

Matrix: Solid

Sample ID: **SC-2-14-7.3**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/kg	61.4	20.9	SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	73.6	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A
Nitrobenzene-d5 (S)	76.7	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A
Terphenyl-d14 (S)	85.3	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 14:52	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	20.7	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	79.3	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	1.5	C	mg/kg	1.2	0.41	SW846 6020A	11/18/21 22:30 SXC	11/19/21 17:58	RMD	A2

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409017**

Date Collected: 11/11/2021 09:00

Matrix: Solid

Sample ID: **SC-2-15-2.8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	11.9	5.5	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Benzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Bromochloromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Bromodichloromethane	ND	C	ug/kg	2.4	0.85	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Bromoform	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Bromomethane	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
2-Butanone	ND	C	ug/kg	11.9	3.8	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Carbon Disulfide	ND	C	ug/kg	2.4	0.75	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Chlorobenzene	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Chlorodibromomethane	ND	C	ug/kg	2.4	0.81	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Chloroethane	ND	C	ug/kg	6.0	1.0	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Chloroform	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Chloromethane	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Cyclohexane	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.4	0.30	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	2.4	0.64	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	2.4	0.80	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.69	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Ethylbenzene	ND	C	ug/kg	2.4	0.81	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Freon 113	ND	U:MS U:MSD U:LCS U:LCSD	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
2-Hexanone	ND	C	ug/kg	11.9	3.3	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Isopropylbenzene	ND	C	ug/kg	2.4	0.73	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Methyl acetate	ND	U:MS U:MSD U:LCS U:LCSD	ug/kg	2.4	0.70	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E
Methyl cyclohexane	ND	U:LCS	ug/kg	2.4	0.67	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409017**

Date Collected: 11/11/2021 09:00

Matrix: Solid

Sample ID: **SC-2-15-2.8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.9	4.5	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.4	0.93	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.4	0.67	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Toluene	ND	C	ug/kg	2.4	0.80	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Total Xylenes	ND	C	ug/kg	7.2	1.7	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.0	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	6.0	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.4	0.74	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.4	0.67	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Trichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
o-Xylene	ND	C	ug/kg	2.4	0.69	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
mp-Xylene	ND	C	ug/kg	4.8	0.99	SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	107	C	%	56 - 124		SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
4-Bromofluorobenzene (S)	123	C	%	51 - 128		SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Dibromofluoromethane (S)	115	C	%	62 - 123		SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
Toluene-d8 (S)	111	C	%	59 - 131		SW846 8260C	11/11/21 09:00 DPC	11/22/21 14:45	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Acenaphthylene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Anthracene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Chrysene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Fluoranthene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	
Naphthalene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409017**

Date Collected: 11/11/2021 09:00

Matrix: Solid

Sample ID: **SC-2-15-2.8**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A
Pyrene	ND	C	ug/kg	51.2	17.4	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	73.5	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A
Nitrobenzene-d5 (S)	69.2	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A
Terphenyl-d14 (S)	86.9	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:18	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	3.6	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	96.4	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	0.51J	C,J	mg/kg	1.0	0.34	SW846 6020A	11/23/21 21:19 SXC	11/27/21 13:02	MSA	A2

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409018**

Date Collected: 11/11/2021 09:30

Matrix: Solid

Sample ID: **SC-2-16-2.4**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
VOLATILE ORGANICS											
Acetone	21.1	C	ug/kg	8.4	3.9	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Benzene	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Bromochloromethane	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Bromodichloromethane	ND	C	ug/kg	1.7	0.60	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Bromoform	ND	C	ug/kg	1.7	0.44	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Bromomethane	ND	C	ug/kg	1.7	0.44	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
2-Butanone	ND	C	ug/kg	8.4	2.7	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Carbon Disulfide	ND	C	ug/kg	1.7	0.53	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Carbon Tetrachloride	ND	C	ug/kg	1.7	0.43	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Chlorobenzene	ND	C	ug/kg	1.7	0.43	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Chlorodibromomethane	ND	C	ug/kg	1.7	0.57	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Chloroethane	ND	C	ug/kg	4.2	0.71	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Chloroform	ND	C	ug/kg	1.7	0.44	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Chloromethane	ND	C	ug/kg	1.7	0.46	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Cyclohexane	ND	C	ug/kg	1.7	0.43	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	1.7	0.21	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2-Dibromoethane	ND	C	ug/kg	1.7	0.45	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2-Dichlorobenzene	ND	C,3	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,3-Dichlorobenzene	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,4-Dichlorobenzene	ND	C,2	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Dichlorodifluoromethane	ND	C	ug/kg	1.7	0.56	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,1-Dichloroethane	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2-Dichloroethane	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,1-Dichloroethene	ND	C	ug/kg	1.7	0.44	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
cis-1,2-Dichloroethene	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
trans-1,2-Dichloroethene	ND	C	ug/kg	1.7	0.44	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2-Dichloropropane	ND	C	ug/kg	1.7	0.50	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
cis-1,3-Dichloropropene	ND	C	ug/kg	1.7	0.46	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
trans-1,3-Dichloropropene	ND	C	ug/kg	1.7	0.49	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Ethylbenzene	ND	C	ug/kg	1.7	0.57	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Freon 113	U;MS U;MSD	ND	U; LCS U;LCSD	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D
2-Hexanone	ND	C	ug/kg	8.4	2.4	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Isopropylbenzene	ND	C	ug/kg	1.7	0.51	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Methyl acetate	U;MS U;MSD	ND	U; LCS U;LCSD	ug/kg	1.7	0.50	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409018**  
Sample ID: **SC-2-16-2.4**

Date Collected: 11/11/2021 09:30 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl cyclohexane	ND	U; LCS	ug/kg	1.7	0.47	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Methyl t-Butyl Ether	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	8.4	3.2	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Methylene Chloride	ND	U;MS U;MSD	ug/kg	1.7	0.65	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Styrene	ND	C,1	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	1.7	0.47	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Tetrachloroethene	ND	C	ug/kg	1.7	0.50	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Toluene	ND	C	ug/kg	1.7	0.56	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Total Xylenes	ND	U;MS U;MSD	ug/kg	5.0	1.2	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	4.2	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,2,4-Trichlorobenzene	ND	C,4	ug/kg	4.2	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,1,1-Trichloroethane	ND	C	ug/kg	1.7	0.52	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
1,1,2-Trichloroethane	ND	C	ug/kg	1.7	0.47	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Trichloroethene	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Trichlorofluoromethane	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Vinyl Chloride	ND	C	ug/kg	1.7	0.42	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
o-Xylene	ND	C	ug/kg	1.7	0.49	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
mp-Xylene	ND	C	ug/kg	3.4	0.70	SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	77	C	%	56 - 124		SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
4-Bromofluorobenzene (S)	80	C	%	51 - 128		SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Dibromofluoromethane (S)	81	C	%	62 - 123		SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
Toluene-d8 (S)	75.8	C	%	59 - 131		SW846 8260C	11/11/21 09:30 DPC	11/22/21 15:11	DPC	D	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Acenaphthylene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Anthracene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Chrysene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Fluoranthene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409018**

Date Collected: 11/11/2021 09:30

Matrix: Solid

Sample ID: **SC-2-16-2.4**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Naphthalene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
Phenanthrene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
Pyrene	ND	C	ug/kg	51.0	17.3	SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	71.3	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
Nitrobenzene-d5 (S)	74	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
Terphenyl-d14 (S)	91.6	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 15:44	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	2.5	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	97.5	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	0.54J	C,J	mg/kg	0.97	0.32	SW846 6020A	11/23/21 21:19 SXC	11/27/21 13:16	MSA	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: 3212409019

Date Collected: 11/11/2021 13:55

Matrix: Solid

Sample ID: SC-2-17-20

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	7.7J	C,J	ug/kg	16.1	7.4	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Benzene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Bromochloromethane	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Bromodichloromethane	ND	C	ug/kg	3.2	1.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Bromoform	ND	C	ug/kg	3.2	0.84	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Bromomethane	ND	C	ug/kg	3.2	0.84	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
2-Butanone	ND	C	ug/kg	16.1	5.2	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Carbon Disulfide	ND	C	ug/kg	3.2	1.0	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	3.2	0.82	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Chlorobenzene	ND	C	ug/kg	3.2	0.82	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Chlorodibromomethane	ND	C	ug/kg	3.2	1.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Chloroethane	ND	C	ug/kg	8.1	1.4	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Chloroform	ND	C	ug/kg	3.2	0.86	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Chloromethane	ND	C	ug/kg	3.2	0.89	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Cyclohexane	ND	C	ug/kg	3.2	0.82	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	3.2	0.40	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	3.2	0.87	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,2-Dichlorobenzene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,4-Dichlorobenzene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	3.2	1.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	3.2	0.84	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	3.2	0.84	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	3.2	0.97	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	3.2	0.89	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	3.2	0.94	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Ethylbenzene	ND	C	ug/kg	3.2	1.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Freon 113	ND	U;MS U;MSD U; LCS U;LCSD	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
2-Hexanone	ND	C	ug/kg	16.1	4.5	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Isopropylbenzene	ND	C	ug/kg	3.2	0.98	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Methyl acetate	ND	U;MS U;MSD U; LCS U;LCSD	ug/kg	3.2	0.95	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E
Methyl cyclohexane	ND	U; LCS	ug/kg	3.2	0.90	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02	DPC	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: 3212409019

Date Collected: 11/11/2021 13:55

Matrix: Solid

Sample ID: SC-2-17-20

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	16.1	6.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Methylene Chloride	ND	C	ug/kg	3.2	1.3	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Styrene	ND	U;MS U;MSD	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	3.2	0.90	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Tetrachloroethene	ND	C	ug/kg	3.2	0.97	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Toluene	ND	C	ug/kg	3.2	1.1	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Total Xylenes	ND	C	ug/kg	9.7	2.3	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	8.1	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	8.1	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	3.2	1.0	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	3.2	0.90	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Trichloroethene	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Vinyl Chloride	ND	C	ug/kg	3.2	0.81	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
o-Xylene	ND	C	ug/kg	3.2	0.94	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
mp-Xylene	ND	C	ug/kg	6.5	1.3	SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78.5	C	%	56 - 124		SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
4-Bromofluorobenzene (S)	88.8	C	%	51 - 128		SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Dibromofluoromethane (S)	79.8	C	%	62 - 123		SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
Toluene-d8 (S)	76.3	C	%	59 - 131		SW846 8260C	11/11/21 13:55 DPC	11/22/21 16:02 DPC	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Acenaphthylene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Anthracene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Benzo(a)anthracene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Benzo(a)pyrene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Benzo(b)fluoranthene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Benzo(g,h,i)perylene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Benzo(k)fluoranthene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Chrysene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Dibenzo(a,h)anthracene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Fluoranthene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Fluorene	ND	U;MS U;MSD	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		
Naphthalene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10 GEC	A		

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Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409019**

Date Collected: 11/11/2021 13:55

Matrix: Solid

Sample ID: **SC-2-17-20**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10	GEC	A
Pyrene	ND	C	ug/kg	63.2	21.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	71.5	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10	GEC	A
Nitrobenzene-d5 (S)	78.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10	GEC	A
Terphenyl-d14 (S)	81.8	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:10	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	24.4	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	75.6	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	1.6	C	mg/kg	1.3	0.43	SW846 6020A	11/23/21 21:19 SXC	11/27/21 13:20	MSA	A1

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409020**

Date Collected: 11/11/2021 14:45

Matrix: Solid

Sample ID: **SC-2-18-6.7**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	11.7	5.4	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Benzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Bromochloromethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Bromodichloromethane	ND	C	ug/kg	2.3	0.83	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Bromoform	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Bromomethane	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
2-Butanone	ND	C	ug/kg	11.7	3.7	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Carbon Disulfide	ND	C	ug/kg	2.3	0.73	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Chlorobenzene	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Chlorodibromomethane	ND	C	ug/kg	2.3	0.79	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Chloroethane	ND	C	ug/kg	5.8	0.99	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Chloroform	ND	C	ug/kg	2.3	0.62	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Chloromethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Cyclohexane	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.3	0.29	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	2.3	0.63	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	2.3	0.70	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.68	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Ethylbenzene	ND	C	ug/kg	2.3	0.79	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Freon 113	ND	U:MS U:MSD U:LCS U:LCSD	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
2-Hexanone	ND	C	ug/kg	11.7	3.3	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Isopropylbenzene	ND	C	ug/kg	2.3	0.71	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Methyl acetate	ND	U:MS U:MSD U:LCS U:LCSD	ug/kg	2.3	0.69	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E
Methyl cyclohexane	ND	U:LCS	ug/kg	2.3	0.65	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27	DPC	E

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409020**

Date Collected: 11/11/2021 14:45

Matrix: Solid

Sample ID: **SC-2-18-6.7**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.7	4.4	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.3	0.91	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Styrene	ND	U;MS U;MSD	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.3	0.65	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.3	0.70	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Toluene	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Total Xylenes	ND	C	ug/kg	7.0	1.6	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.8	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.8	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.3	0.72	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.3	0.65	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Trichloroethene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
o-Xylene	ND	C	ug/kg	2.3	0.68	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
mp-Xylene	ND	C	ug/kg	4.7	0.97	SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	74.5	C	%	56 - 124		SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
4-Bromofluorobenzene (S)	80.3	C	%	51 - 128		SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Dibromofluoromethane (S)	79.7	C	%	62 - 123		SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
Toluene-d8 (S)	76	C	%	59 - 131		SW846 8260C	11/11/21 14:45 DPC	11/22/21 16:27 DPC	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Acenaphthylene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Anthracene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Chrysene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Fluoranthene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Fluorene	ND	U;MS U;MSD	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	
Naphthalene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36 GEC	GEC	A	

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409020**

Date Collected: 11/11/2021 14:45

Matrix: Solid

Sample ID: **SC-2-18-6.7**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36	GEC	A
Pyrene	ND	C	ug/kg	57.4	19.5	SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	70.6	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36	GEC	A
Nitrobenzene-d5 (S)	73.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36	GEC	A
Terphenyl-d14 (S)	79.1	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 16:36	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	16.3	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	83.7	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	11.0	C	mg/kg	1.2	0.38	SW846 6020A	11/23/21 21:19 SXC	11/27/21 13:48	MSA	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409021**

Date Collected: 11/11/2021 15:30

Matrix: Water

Sample ID: **EB-SOIL-20211111**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	U;MS U;MSD	ug/L	10.0	3.1	SW846 8260C		11/19/21 12:09	DPC	
Benzene	ND	U;MS U;MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:09	DPC	
Bromochloromethane	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:09	DPC	
Bromodichloromethane	ND	U;MS U;MSD	ug/L	1.0	0.27	SW846 8260C		11/19/21 12:09	DPC	
Bromoform	ND	U;MS U;MSD	ug/L	1.0	0.40	SW846 8260C		11/19/21 12:09	DPC	
Bromomethane	ND	U;MS U;MSD	ug/L	1.0	0.39	SW846 8260C		11/19/21 12:09	DPC	
2-Butanone	ND	U;MS U;MSD	ug/L	10.0	1.8	SW846 8260C		11/19/21 12:09	DPC	
Carbon Disulfide	ND	U;MS U;MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:09	DPC	
Carbon Tetrachloride	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:09	DPC	
Chlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.19	SW846 8260C		11/19/21 12:09	DPC	
Chlorodibromomethane	ND	U;MS U;MSD	ug/L	1.0	0.45	SW846 8260C		11/19/21 12:09	DPC	
Chloroethane	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	
Chloroform	5.0	J;MS J;MSD	ug/L	1.0	0.21	SW846 8260C		11/19/21 12:09	DPC	
Chloromethane	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:09	DPC	
Cyclohexane	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:09	DPC	
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/L	7.0	1.5	SW846 8260C		11/19/21 12:09	DPC	
1,2-Dibromoethane	ND	U;MS U;MSD	ug/L	1.0	0.28	SW846 8260C		11/19/21 12:09	DPC	
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.38	SW846 8260C		11/19/21 12:09	DPC	
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.25	SW846 8260C		11/19/21 12:09	DPC	
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.27	SW846 8260C		11/19/21 12:09	DPC	
Dichlorodifluoromethane	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	
1,1-Dichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.28	SW846 8260C		11/19/21 12:09	DPC	
1,2-Dichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:09	DPC	
1,1-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:09	DPC	
cis-1,2-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:09	DPC	
trans-1,2-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.26	SW846 8260C		11/19/21 12:09	DPC	
1,2-Dichloropropane	ND	U;MS U;MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:09	DPC	
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:09	DPC	
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:09	DPC	
Ethylbenzene	ND	U;MS U;MSD	ug/L	1.0	0.34	SW846 8260C		11/19/21 12:09	DPC	
Freon 113	ND	U;MS U;MSD	ug/L	1.0	0.26	SW846 8260C		11/19/21 12:09	DPC	
2-Hexanone	ND	U;MS U;MSD	ug/L	5.0	1.3	SW846 8260C		11/19/21 12:09	DPC	
Isopropylbenzene	ND	U;MS U;MSD	ug/L	1.0	0.22	SW846 8260C		11/19/21 12:09	DPC	
Methyl acetate	ND	U;MS U;MSD	ug/L	2.0	0.32	SW846 8260C		11/19/21 12:09	DPC	
Methyl cyclohexane	ND	U;MS U;MSD	ug/L	1.0	0.30	SW846 8260C		11/19/21 12:09	DPC	
Methyl t-Butyl Ether	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409021**

Date Collected: 11/11/2021 15:30

Matrix: Water

Sample ID: **EB-SOIL-20211111**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	U:MS U:MSD	ug/L	5.0	1.5	SW846 8260C		11/19/21 12:09	DPC	
Methylene Chloride	0.82J	J:MS J:MSD	ug/L	1.0	0.45	SW846 8260C		11/19/21 12:09	DPC	
Styrene	ND	U:MS U:MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:09	DPC	
1,1,2,2-Tetrachloroethane	ND	U:MS U:MSD	ug/L	1.0	0.34	SW846 8260C		11/19/21 12:09	DPC	
Tetrachloroethene	ND	U:MS U:MSD	ug/L	1.0	0.35	SW846 8260C		11/19/21 12:09	DPC	
Toluene	ND	U:MS U:MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:09	DPC	
Total Xylenes	ND	U:MS U:MSD	ug/L	3.0	0.66	SW846 8260C		11/19/21 12:09	DPC	
1,2,3-Trichlorobenzene	ND	U:MS U:MSD	ug/L	2.0	0.93	SW846 8260C		11/19/21 12:09	DPC	
1,2,4-Trichlorobenzene	ND	U:MS U:MSD	ug/L	2.0	0.82	SW846 8260C		11/19/21 12:09	DPC	
1,1,1-Trichloroethane	ND	U:MS U:MSD	ug/L	1.0	0.22	SW846 8260C		11/19/21 12:09	DPC	
1,1,2-Trichloroethane	ND	U:MS U:MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	
Trichloroethene	ND	U:MS U:MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	
Trichlorofluoromethane	ND	U:MS U:MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:09	DPC	
Vinyl Chloride	ND	U:MS U:MSD	ug/L	1.0	0.30	SW846 8260C		11/19/21 12:09	DPC	
o-Xylene	ND	U:MS U:MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:09	DPC	
mp-Xylene	ND	U:MS U:MSD	ug/L	2.0	0.52	SW846 8260C		11/19/21 12:09	DPC	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.6	J:MS J:MSD	%	62 - 133		SW846 8260C			11/19/21 12:09	DPC
4-Bromofluorobenzene (S)	108	J:MS J:MSD	%	79 - 114		SW846 8260C			11/19/21 12:09	DPC
Dibromofluoromethane (S)	90.8	J:MS J:MSD	%	78 - 116		SW846 8260C			11/19/21 12:09	DPC
Toluene-d8 (S)	99.6	J:MS J:MSD	%	76 - 127		SW846 8260C			11/19/21 12:09	DPC
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Acenaphthylene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Anthracene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Benzo(a)anthracene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Benzo(a)pyrene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Benzo(b)fluoranthene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Benzo(g,h,i)perylene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Benzo(k)fluoranthene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Chrysene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Dibenzo(a,h)anthracene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Fluoranthene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Fluorene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Indeno(1,2,3-cd)pyrene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Naphthalene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC
Phenanthrene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10	CAC	11/19/21 13:00	GEC

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409021**

Date Collected: 11/11/2021 15:30

Matrix: Water

Sample ID: **EB-SOIL-20211111**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/L	1.5	0.25	SW846 8270D	11/18/21 08:10 CAC	11/19/21 13:00	GEC	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	68.9	C	%	24 - 116		SW846 8270D	11/18/21 08:10 CAC	11/19/21 13:00	GEC	
Nitrobenzene-d5 (S)	81.3	C	%	32 - 125		SW846 8270D	11/18/21 08:10 CAC	11/19/21 13:00	GEC	
Terphenyl-d14 (S)	90.9	C	%	41 - 145		SW846 8270D	11/18/21 08:10 CAC	11/19/21 13:00	GEC	
<b>SEMIVOLATILE SIM</b>										
Acenaphthene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Acenaphthylene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Anthracene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Benzo(a)anthracene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Benzo(a)pyrene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Benzo(b)fluoranthene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Benzo(g,h,i)perylene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Benzo(k)fluoranthene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Chrysene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Dibenzo(a,h)anthracene	ND	C	ug/L	0.069	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Fluoranthene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Fluorene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Indeno(1,2,3-cd)pyrene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Naphthalene	ND	C	ug/L	0.099	0.047	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Phenanthrene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Pyrene	ND	C	ug/L	0.099	0.0099	8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	62.5	C	%	29 - 112		8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
Fluoranthene-d10 (S)	69.8	C	%	45 - 130		8270 SIM	11/18/21 08:10 CAC	11/20/21 16:52	CGS	
<b>METALS</b>										
Lead, Total	ND	U;MS U;MSD	mg/L	0.0022	0.00074	SW846 6020A	11/18/21 18:20 SXC	11/23/21 12:54	RMD	E1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409022**  
Sample ID: **TB-20211111**

Date Collected: 11/11/2021 00:00 Matrix: Water  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	3.1J	J;MS J;MSD	ug/L	10.0	3.1	SW846 8260C		11/19/21 12:32	DPC	
Benzene	ND	U;MS U;MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:32	DPC	
Bromochloromethane	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:32	DPC	
Bromodichloromethane	ND	U;MS U;MSD	ug/L	1.0	0.27	SW846 8260C		11/19/21 12:32	DPC	
Bromoform	ND	U;MS U;MSD	ug/L	1.0	0.40	SW846 8260C		11/19/21 12:32	DPC	
Bromomethane	ND	U;MS U;MSD	ug/L	1.0	0.39	SW846 8260C		11/19/21 12:32	DPC	
2-Butanone	ND	U;MS U;MSD	ug/L	10.0	1.8	SW846 8260C		11/19/21 12:32	DPC	
Carbon Disulfide	ND	U;MS U;MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:32	DPC	
Carbon Tetrachloride	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:32	DPC	
Chlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.19	SW846 8260C		11/19/21 12:32	DPC	
Chlorodibromomethane	ND	U;MS U;MSD	ug/L	1.0	0.45	SW846 8260C		11/19/21 12:32	DPC	
Chloroethane	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	
Chloroform	ND	U;MS U;MSD	ug/L	1.0	0.21	SW846 8260C		11/19/21 12:32	DPC	
Chloromethane	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:32	DPC	
Cyclohexane	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:32	DPC	
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/L	7.0	1.5	SW846 8260C		11/19/21 12:32	DPC	
1,2-Dibromoethane	ND	U;MS U;MSD	ug/L	1.0	0.28	SW846 8260C		11/19/21 12:32	DPC	
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.38	SW846 8260C		11/19/21 12:32	DPC	
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.25	SW846 8260C		11/19/21 12:32	DPC	
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/L	1.0	0.27	SW846 8260C		11/19/21 12:32	DPC	
Dichlorodifluoromethane	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	
1,1-Dichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.28	SW846 8260C		11/19/21 12:32	DPC	
1,2-Dichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:32	DPC	
1,1-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:32	DPC	
cis-1,2-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.32	SW846 8260C		11/19/21 12:32	DPC	
trans-1,2-Dichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.26	SW846 8260C		11/19/21 12:32	DPC	
1,2-Dichloropropane	ND	U;MS U;MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:32	DPC	
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/L	1.0	0.31	SW846 8260C		11/19/21 12:32	DPC	
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/L	1.0	0.29	SW846 8260C		11/19/21 12:32	DPC	
Ethylbenzene	ND	U;MS U;MSD	ug/L	1.0	0.34	SW846 8260C		11/19/21 12:32	DPC	
Freon 113	ND	U;MS U;MSD	ug/L	1.0	0.26	SW846 8260C		11/19/21 12:32	DPC	
2-Hexanone	ND	U;MS U;MSD	ug/L	5.0	1.3	SW846 8260C		11/19/21 12:32	DPC	
Isopropylbenzene	ND	U;MS U;MSD	ug/L	1.0	0.22	SW846 8260C		11/19/21 12:32	DPC	
Methyl acetate	ND	U;MS U;MSD	ug/L	2.0	0.32	SW846 8260C		11/19/21 12:32	DPC	
Methyl cyclohexane	ND	U;MS U;MSD	ug/L	1.0	0.30	SW846 8260C		11/19/21 12:32	DPC	
Methyl t-Butyl Ether	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409022**  
Sample ID: **TB-20211111**

Date Collected: 11/11/2021 00:00 Matrix: Water  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/L	5.0	1.5	SW846 8260C		11/19/21 12:32	DPC	
Methylene Chloride	ND	U;MS U;MSD	ug/L	1.0	0.45	SW846 8260C		11/19/21 12:32	DPC	
Styrene	ND	U;MS U;MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:32	DPC	
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/L	1.0	0.34	SW846 8260C		11/19/21 12:32	DPC	
Tetrachloroethene	ND	U;MS U;MSD	ug/L	1.0	0.35	SW846 8260C		11/19/21 12:32	DPC	
Toluene	ND	U;MS U;MSD	ug/L	1.0	0.23	SW846 8260C		11/19/21 12:32	DPC	
Total Xylenes	ND	U;MS U;MSD	ug/L	3.0	0.66	SW846 8260C		11/19/21 12:32	DPC	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/L	2.0	0.93	SW846 8260C		11/19/21 12:32	DPC	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/L	2.0	0.82	SW846 8260C		11/19/21 12:32	DPC	
1,1,1-Trichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.22	SW846 8260C		11/19/21 12:32	DPC	
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	
Trichloroethene	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	
Trichlorofluoromethane	ND	U;MS U;MSD	ug/L	1.0	0.24	SW846 8260C		11/19/21 12:32	DPC	
Vinyl Chloride	ND	U;MS U;MSD	ug/L	1.0	0.30	SW846 8260C		11/19/21 12:32	DPC	
o-Xylene	ND	U;MS U;MSD	ug/L	1.0	0.33	SW846 8260C		11/19/21 12:32	DPC	
mp-Xylene	ND	U;MS U;MSD	ug/L	2.0	0.52	SW846 8260C		11/19/21 12:32	DPC	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.1	J;MS J;MSD	%	62 - 133		SW846 8260C			11/19/21 12:32	DPC
4-Bromofluorobenzene (S)	109	J;MS J;MSD	%	79 - 114		SW846 8260C			11/19/21 12:32	DPC
Dibromofluoromethane (S)	88.1	J;MS J;MSD	%	78 - 116		SW846 8260C			11/19/21 12:32	DPC
Toluene-d8 (S)	100	J;MS J;MSD	%	76 - 127		SW846 8260C			11/19/21 12:32	DPC

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Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409023**

Date Collected: 11/11/2021 13:50

Matrix: Solid

Sample ID: **SC-2-17-9.5**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10.5	4.8	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Benzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Bromochloromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Bromodichloromethane	ND	C	ug/kg	2.1	0.75	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Bromoform	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Bromomethane	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
2-Butanone	ND	C	ug/kg	10.5	3.4	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Carbon Disulfide	ND	C	ug/kg	2.1	0.66	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Carbon Tetrachloride	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Chlorobenzene	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Chlorodibromomethane	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Chloroethane	ND	C	ug/kg	5.3	0.89	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Chloroform	ND	C	ug/kg	2.1	0.56	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Chloromethane	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Cyclohexane	8.9	C	ug/kg	2.1	0.54	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.1	0.26	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,2-Dibromoethane	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,2-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,3-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,4-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Dichlorodifluoromethane	ND	C	ug/kg	2.1	0.70	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,1-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,2-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,1-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
1,2-Dichloropropane	ND	C	ug/kg	2.1	0.63	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.61	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Ethylbenzene	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Freon 113	ND	U;MS U;MSD U; LCS U;LCSD	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
2-Hexanone	ND	C	ug/kg	10.5	2.9	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Isopropylbenzene	0.77J	C,J	ug/kg	2.1	0.64	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Methyl acetate	ND	U;MS U;MSD U; LCS U;LCSD	ug/kg	2.1	0.62	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	
Methyl cyclohexane	67.0	J; LCS	ug/kg	2.1	0.59	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36 DPC	C	

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409023**  
Sample ID: **SC-2-17-9.5**

Date Collected: 11/11/2021 13:50 Matrix: Solid  
Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10.5	4.0	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Methylene Chloride	ND	C	ug/kg	2.1	0.82	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Styrene	ND	U;MS U;MSD	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Tetrachloroethene	ND	C	ug/kg	2.1	0.63	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Toluene	ND	C	ug/kg	2.1	0.70	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Total Xylenes	ND	C	ug/kg	6.3	1.5	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.3	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	5.3	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
1,1,1-Trichloroethane	ND	C	ug/kg	2.1	0.65	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
1,1,2-Trichloroethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Trichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Trichlorofluoromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Vinyl Chloride	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
o-Xylene	ND	C	ug/kg	2.1	0.61	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
mp-Xylene	ND	C	ug/kg	4.2	0.87	SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	74.8	C	%	56 - 124		SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
4-Bromofluorobenzene (S)	75.1	C	%	51 - 128		SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Dibromofluoromethane (S)	78.5	C	%	62 - 123		SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
Toluene-d8 (S)	71.9	C	%	59 - 131		SW846 8260C	11/11/21 13:50 DPC	11/22/21 15:36	DPC	C	
SEMIVOLATILES											
Acenaphthene	ND	U;MS U;MSD	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Acenaphthylene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Anthracene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Benzo(a)anthracene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Benzo(a)pyrene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Benzo(k)fluoranthene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Chrysene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Fluoranthene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Fluorene	79.7	J;MS J;MSD	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	
Naphthalene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID: **3212409023**

Date Collected: 11/11/2021 13:50

Matrix: Solid

Sample ID: **SC-2-17-9.5**

Date Received: 11/13/2021 08:48

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	54.8J	C,J	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A
Pyrene	ND	C	ug/kg	61.2	20.8	SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	74.2	C	%	40 - 110		SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A
Nitrobenzene-d5 (S)	85.1	C	%	38 - 112		SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A
Terphenyl-d14 (S)	90.8	C	%	45 - 126		SW846 8270D	11/15/21 18:30 JLH	11/18/21 17:02	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	21.5	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
Total Solids	78.5	C	%	0.1	0.01	S2540G-11		11/17/21 08:16	KMS	A
<b>METALS</b>										
Lead, Total	1.5	C	mg/kg	1.2	0.41	SW846 6020A	11/23/21 21:19 SXC	11/27/21 13:51	MSA	A1

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

### PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3212409001	1	SC-2-06-7	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
3212409001	2	SC-2-06-7	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
3212409001	3	SC-2-06-7	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
3212409001	4	SC-2-06-7	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
3212409001	5	SC-2-06-7	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
3212409002	1	SC-2-06-8	SW846 8260C	Methyl cyclohexane
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.				
3212409002	2	SC-2-06-8	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.				
3212409002	3	SC-2-06-8	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.				
3212409003	1	SC-2-07-8.5	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
3212409003	2	SC-2-07-8.5	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
3212409003	3	SC-2-07-8.5	SW846 8260C	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260C was outside of control limits. The % Recovery was reported as 22.6 and the control limits were 59 to 131. This result was reported at a dilution of 1.				
3212409003	4	SC-2-07-8.5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
3212409003	5	SC-2-07-8.5	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
3212409004	1	SC-2-07-12.5	SW846 8260C	Methyl cyclohexane
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.				

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**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**3212409004**      2      SC-2-07-12.5      SW846 8260C      Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

**3212409005**      1      SC-2-08-15      SW846 8260C      Methyl cyclohexane

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.

**3212409005**      3      SC-2-08-15      SW846 8260C      Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.

**3212409006**      2      SC-2-09-5      SW846 8260C      Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

**3212409007**      1      SC-2-09-13.5      SW846 8260C      Methyl cyclohexane

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.

**3212409007**      3      SC-2-09-13.5      SW846 8260C      Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.

**3212409008**      2      SC-2-10-13      SW846 8260C      Methyl acetate

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.

**3212409008**      4      SC-2-10-13      SW846 8260C      Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.

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**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**3212409010**      2      SC-2-11-8      SW846 8270D      Acenaphthene

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Acenaphthene. The RPD was reported as 18.5 and the upper control limit is 17.

**3212409010**      4      SC-2-11-8      SW846 8260C      cis-1,3-Dichloropropene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 51.4 and the control limits were 76 to 123.

**3212409010**      6      SC-2-11-8      SW846 8260C      cis-1,3-Dichloropropene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte cis-1,3-Dichloropropene. The RPD was reported as 50.7 and the upper control limit is 40.

**3212409010**      8      SC-2-11-8      SW846 8260C      4-Methyl-2-Pentanone(MIBK)

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 4-Methyl-2-Pentanone(MIBK). The % Recovery was reported as 188 and the control limits were 64 to 143.

**3212409010**      10      SC-2-11-8      SW846 8260C      trans-1,3-Dichloropropene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte trans-1,3-Dichloropropene. The % Recovery was reported as 76.3 and the control limits were 77 to 123.

**3212409010**      12      SC-2-11-8      SW846 8260C      1,1,2-Trichloroethane

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1,2-Trichloroethane. The % Recovery was reported as 2900 and the control limits were 79 to 123.

**3212409010**      14      SC-2-11-8      SW846 8260C      Toluene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Toluene. The % Recovery was reported as 47.3 and the control limits were 73 to 129.

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## ANALYTICAL RESULTS

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

<b>3212409010</b>	16	SC-2-11-8	SW846 8260C	Toluene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Toluene. The RPD was reported as 52.2 and the upper control limit is 40.				
<b>3212409010</b>	17	SC-2-11-8	SW846 8260C	Chlorodibromomethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chlorodibromomethane. The % Recovery was reported as 60.4 and the control limits were 75 to 124.				
<b>3212409010</b>	18	SC-2-11-8	SW846 8260C	Chlorodibromomethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chlorodibromomethane. The RPD was reported as 42.3 and the upper control limit is 40.				
<b>3212409010</b>	19	SC-2-11-8	SW846 8260C	1,2-Dibromoethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromoethane. The % Recovery was reported as 51.8 and the control limits were 76 to 127.				
<b>3212409010</b>	20	SC-2-11-8	SW846 8260C	1,2-Dibromoethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromoethane. The % Recovery was reported as 75.7 and the control limits were 76 to 127.				
<b>3212409010</b>	21	SC-2-11-8	SW846 8260C	1,2-Dibromoethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromoethane. The RPD was reported as 50.1 and the upper control limit is 40.				
<b>3212409010</b>	22	SC-2-11-8	SW846 8260C	Tetrachloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 36.7 and the control limits were 58 to 137.				
<b>3212409010</b>	23	SC-2-11-8	SW846 8260C	Tetrachloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 57.1 and the control limits were 58 to 137.				
<b>3212409010</b>	24	SC-2-11-8	SW846 8260C	Tetrachloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The RPD was reported as 55.8 and the upper control limit is 40.				
<b>3212409010</b>	25	SC-2-11-8	SW846 8260C	Chlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 54.8 and the control limits were 76 to 125.				
<b>3212409010</b>	26	SC-2-11-8	SW846 8260C	Chlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 72.5 and the control limits were 76 to 125.				
<b>3212409010</b>	27	SC-2-11-8	SW846 8260C	Chlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chlorobenzene. The RPD was reported as 40.8 and the upper control limit is 40.				
<b>3212409010</b>	28	SC-2-11-8	SW846 8260C	Ethylbenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 44.9 and the control limits were 73 to 133.				
<b>3212409010</b>	29	SC-2-11-8	SW846 8260C	Ethylbenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 66.5 and the control limits were 73 to 133.				
<b>3212409010</b>	30	SC-2-11-8	SW846 8260C	Ethylbenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The RPD was reported as 51.4 and the upper control limit is 40.				

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**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**3212409010** 32 SC-2-11-8 SW846 8260C mp-Xylene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte mp-Xylene. The % Recovery was reported as 64.1 and the control limits were 72 to 130.

**3212409010** 34 SC-2-11-8 SW846 8260C Styrene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Styrene. The % Recovery was reported as 71.2 and the control limits were 77 to 130.

**3212409010** 36 SC-2-11-8 SW846 8260C 1,1,2,2-Tetrachloroethane

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1,2,2-Tetrachloroethane. The % Recovery was reported as 2890 and the control limits were 72 to 134.

**3212409010** 38 SC-2-11-8 SW846 8260C 1,1,2,2-Tetrachloroethane

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1,2,2-Tetrachloroethane. The RPD was reported as 64.7 and the upper control limit is 40.

**3212409010** 40 SC-2-11-8 SW846 8260C o-Xylene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte o-Xylene. The % Recovery was reported as 72.4 and the control limits were 75 to 129.

**3212409010** 42 SC-2-11-8 SW846 8260C Isopropylbenzene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 61.6 and the control limits were 71 to 137.

**3212409010** 44 SC-2-11-8 SW846 8260C 1,3-Dichlorobenzene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,3-Dichlorobenzene. The % Recovery was reported as 69.2 and the control limits were 72 to 127.

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**ANALYTICAL RESULTS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**3212409010** 46 SC-2-11-8 SW846 8260C Total Xylenes

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as 66.9 and the control limits were 73 to 130.

**3212409010** 48 SC-2-11-8 SW846 8260C 1,4-Dichlorobenzene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 58 and the control limits were 72 to 126.

**3212409010** 50 SC-2-11-8 SW846 8260C 1,2-Dichlorobenzene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 62.5 and the control limits were 75 to 126.

**3212409010** 52 SC-2-11-8 SW846 8260C 1,2-Dibromo-3-chloropropane

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromo-3-chloropropane. The % Recovery was reported as 211 and the control limits were 52 to 151.

**3212409010** 54 SC-2-11-8 SW846 8260C 1,2,4-Trichlorobenzene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 25.5 and the control limits were 63 to 132.

**3212409010** 56 SC-2-11-8 SW846 8260C 1,2,4-Trichlorobenzene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The RPD was reported as 55.3 and the upper control limit is 40.

**3212409010** 58 SC-2-11-8 SW846 8260C 1,2,3-Trichlorobenzene

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The RPD was reported as 53.8 and the upper control limit is 40.

**3212409010** 60 SC-2-11-8 SW846 8260C Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

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**ANALYTICAL RESULTS**

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**3212409010** 62 SC-2-11-8 SW846 8260C Methyl cyclohexane

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 139 and the control limits were 70 to 130.

**3212409010** 64 SC-2-11-8 SW846 8260C 1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260C was outside of control limits in the MSD associated with this sample. The % Recovery was reported as 63.2 and the control limits were 71 to 146. This result was reported at a dilution of 50.

**3212409010** 66 SC-2-11-8 SW846 8260C 1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260C was outside of control limits. The % Recovery was reported as 69.2 and the control limits were 71 to 146. This result was reported at a dilution of 50.

**3212409011** 2 SC-2-101 SW846 8270D 2-Fluorobiphenyl

The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 20.3 and the control limits were 40 to 110. This result was reported at a dilution of 1.

**3212409011** 4 SC-2-101 SW846 8260C Methyl cyclohexane

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.

**3212409011** 6 SC-2-101 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.

**3212409012** 2 SC-2-102 SW846 8260C Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

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**ANALYTICAL RESULTS**

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**3212409014** 1 SC-2-12-8 SW846 8260C Methyl cyclohexane

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.

**3212409014** 3 SC-2-12-8 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.

**3212409015** 2 SC-2-13-6 SW846 8260C Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

**3212409016** 1 SC-2-14-7.3 SW846 8260C Methyl cyclohexane

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 132 and the control limits were 70 to 130.

**3212409016** 3 SC-2-14-7.3 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 138 and the control limits were 40 to 109.

**3212409017** 2 SC-2-15-2.8 SW846 8260C Methyl acetate

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.

**3212409017** 4 SC-2-15-2.8 SW846 8260C Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.

**3212409018** 1 SC-2-16-2.4 SW846 8260C Styrene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Styrene. The % Recovery was reported as 72.5 and the control limits were 77 to 130.

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**ANALYTICAL RESULTS**

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**3212409018** 3 SC-2-16-2.4 SW846 8260C 1,2-Dichlorobenzene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 74.4 and the control limits were 75 to 126.

**3212409018** 5 SC-2-16-2.4 SW846 8260C 1,2,3-Trichlorobenzene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 59.6 and the control limits were 68 to 129.

**3212409018** 7 SC-2-16-2.4 SW846 8260C Methyl acetate

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.

**3212409018** 9 SC-2-16-2.4 SW846 8260C Methyl acetate

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 247 and the control limits were 70 to 130.

**3212409018** 11 SC-2-16-2.4 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.

**3212409019** 1 SC-2-17-20 SW846 8260C Methyl cyclohexane

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.

**3212409019** 3 SC-2-17-20 SW846 8260C Methyl acetate

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.

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**ANALYTICAL RESULTS**

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**3212409019** 5 SC-2-17-20 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.

**3212409020** 2 SC-2-18-6.7 SW846 8260C Methyl acetate

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.

**3212409020** 4 SC-2-18-6.7 SW846 8260C Freon 113

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.

**3212409023** 1 SC-2-17-9.5 SW846 8260C Methyl cyclohexane

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.

**3212409023** 3 SC-2-17-9.5 SW846 8260C Methyl acetate

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.

**3212409023** 5 SC-2-17-9.5 SW846 8260C Freon 113

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.

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## ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3212409001	SC-2-06-7	S2540G-11		
3212409001	SC-2-06-7	SW846 6020A	SW846 3051	
3212409001	SC-2-06-7	SW846 8260C	SW846 5035	
3212409001	SC-2-06-7	SW846 8270D	SW846 3546A	
3212409002	SC-2-06-8	S2540G-11		
3212409002	SC-2-06-8	SW846 6020A	SW846 3051	
3212409002	SC-2-06-8	SW846 8260C	SW846 5035	
3212409002	SC-2-06-8	SW846 8270D	SW846 3546A	
3212409003	SC-2-07-8.5	S2540G-11		
3212409003	SC-2-07-8.5	SW846 6020A	SW846 3051	
3212409003	SC-2-07-8.5	SW846 8260C	SW846 5035	
3212409003	SC-2-07-8.5	SW846 8270D	SW846 3546A	
3212409004	SC-2-07-12.5	S2540G-11		
3212409004	SC-2-07-12.5	SW846 6020A	SW846 3051	
3212409004	SC-2-07-12.5	SW846 8260C	SW846 5035	
3212409004	SC-2-07-12.5	SW846 8270D	SW846 3546A	
3212409005	SC-2-08-15	S2540G-11		
3212409005	SC-2-08-15	SW846 6020A	SW846 3051	
3212409005	SC-2-08-15	SW846 8260C	SW846 5035	
3212409005	SC-2-08-15	SW846 8270D	SW846 3546A	
3212409006	SC-2-09-5	S2540G-11		
3212409006	SC-2-09-5	SW846 6020A	SW846 3051	
3212409006	SC-2-09-5	SW846 8260C	SW846 5035	
3212409006	SC-2-09-5	SW846 8270D	SW846 3546A	
3212409007	SC-2-09-13.5	S2540G-11		
3212409007	SC-2-09-13.5	SW846 6020A	SW846 3051	
3212409007	SC-2-09-13.5	SW846 8260C	SW846 5035	
3212409007	SC-2-09-13.5	SW846 8270D	SW846 3546A	
3212409008	SC-2-10-13	S2540G-11		
3212409008	SC-2-10-13	SW846 6020A	SW846 3051	
3212409008	SC-2-10-13	SW846 8260C	SW846 5035	
3212409008	SC-2-10-13	SW846 8270D	SW846 3546A	
3212409010	SC-2-11-8	S2540G-11		
3212409010	SC-2-11-8	SW846 6020A	SW846 3051	
3212409010	SC-2-11-8	SW846 8260C	SW846 5035	
3212409010	SC-2-11-8	SW846 8270D	SW846 3546A	
3212409011	SC-2-101	S2540G-11		
3212409011	SC-2-101	SW846 6020A	SW846 3051	
3212409011	SC-2-101	SW846 8260C	SW846 5035	
3212409011	SC-2-101	SW846 8270D	SW846 3546A	
3212409012	SC-2-102	S2540G-11		
3212409012	SC-2-102	SW846 6020A	SW846 3051	
3212409012	SC-2-102	SW846 8260C	SW846 5035	
3212409012	SC-2-102	SW846 8270D	SW846 3546A	
3212409014	SC-2-12-8	S2540G-11		
3212409014	SC-2-12-8	SW846 6020A	SW846 3051	

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## ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3212409014	SC-2-12-8	SW846 8260C	SW846 5035	
3212409014	SC-2-12-8	SW846 8270D	SW846 3546A	
3212409015	SC-2-13-6	S2540G-11		
3212409015	SC-2-13-6	SW846 6020A	SW846 3051	
3212409015	SC-2-13-6	SW846 8260C	SW846 5035	
3212409015	SC-2-13-6	SW846 8270D	SW846 3546A	
3212409016	SC-2-14-7.3	S2540G-11		
3212409016	SC-2-14-7.3	SW846 6020A	SW846 3051	
3212409016	SC-2-14-7.3	SW846 8260C	SW846 5035	
3212409016	SC-2-14-7.3	SW846 8270D	SW846 3546A	
3212409017	SC-2-15-2.8	S2540G-11		
3212409017	SC-2-15-2.8	SW846 6020A	SW846 3051	
3212409017	SC-2-15-2.8	SW846 8260C	SW846 5035	
3212409017	SC-2-15-2.8	SW846 8270D	SW846 3546A	
3212409018	SC-2-16-2.4	S2540G-11		
3212409018	SC-2-16-2.4	SW846 6020A	SW846 3051	
3212409018	SC-2-16-2.4	SW846 8260C	SW846 5035	
3212409018	SC-2-16-2.4	SW846 8270D	SW846 3546A	
3212409019	SC-2-17-20	S2540G-11		
3212409019	SC-2-17-20	SW846 6020A	SW846 3051	
3212409019	SC-2-17-20	SW846 8260C	SW846 5035	
3212409019	SC-2-17-20	SW846 8270D	SW846 3546A	
3212409020	SC-2-18-6.7	S2540G-11		
3212409020	SC-2-18-6.7	SW846 6020A	SW846 3051	
3212409020	SC-2-18-6.7	SW846 8260C	SW846 5035	
3212409020	SC-2-18-6.7	SW846 8270D	SW846 3546A	
3212409021	EB-SOIL-20211111	8270 SIM	SW846 3510C	
3212409021	EB-SOIL-20211111	SW846 6020A	SW846 3015	
3212409021	EB-SOIL-20211111	SW846 8260C		
3212409021	EB-SOIL-20211111	SW846 8270D	SW846 3510C	
3212409022	TB-20211111	SW846 8260C		
3212409023	SC-2-17-9.5	S2540G-11		
3212409023	SC-2-17-9.5	SW846 6020A	SW846 3051	
3212409023	SC-2-17-9.5	SW846 8260C	SW846 5035	
3212409023	SC-2-17-9.5	SW846 8270D	SW846 3546A	

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

QC Batch: EXTR/67193

Analysis Method: SW846 8270D

QC Batch Method: SW846 3546A

Associated Lab Samples: 3212409001, 3212409002, 3212409003, 3212409004, 3212409005, 3212409006, 3212409007, 3212409008, 3212409010, 3212409011, 3212409012, 3212409014, 3212409015, 3212409016, 3212409017, 3212409018, 3212409019, 3212409020, 3212409023

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/kg	50.0
Acenaphthylene	ND	ug/kg	50.0
Anthracene	ND	ug/kg	50.0
Benzo(a)anthracene	ND	ug/kg	50.0
Benzo(a)pyrene	ND	ug/kg	50.0
Benzo(b)fluoranthene	ND	ug/kg	50.0
Benzo(g,h,i)perylene	ND	ug/kg	50.0
Benzo(k)fluoranthene	ND	ug/kg	50.0
Chrysene	ND	ug/kg	50.0
Dibenzo(a,h)anthracene	ND	ug/kg	50.0
Fluoranthene	ND	ug/kg	50.0
Fluorene	ND	ug/kg	50.0
Indeno(1,2,3-cd)pyrene	ND	ug/kg	50.0
Naphthalene	ND	ug/kg	50.0
Phenanthrene	ND	ug/kg	50.0
Pyrene	ND	ug/kg	50.0
2,4,6-Tribromophenol (S)			
2-Fluorobiphenyl (S)	66.7	%	40 - 110
2-Fluorophenol (S)			
Nitrobenzene-d5 (S)	69.7	%	38 - 112
Phenol-d5 (S)			
Terphenyl-d14 (S)	76.7	%	45 - 126

### LABORATORY CONTROL SAMPLE: 3421458

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	88.7	ug/kg	3330	2960	59 - 115
Acenaphthylene	90.3	ug/kg	3330	3010	59 - 114
Anthracene	87.9	ug/kg	3330	2930	63 - 112
Benzo(a)anthracene	92.9	ug/kg	3330	3100	61 - 118
Benzo(a)pyrene	85.8	ug/kg	3330	2860	61 - 114
Benzo(b)fluoranthene	86.6	ug/kg	3330	2890	64 - 113
Benzo(g,h,i)perylene	90.5	ug/kg	3330	3020	61 - 118
Benzo(k)fluoranthene	90.7	ug/kg	3330	3020	62 - 113

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### QUALITY CONTROL DATA

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Chrysene	90.4	ug/kg	3330	3010	63 - 111
Dibenzo(a,h)anthracene	92.4	ug/kg	3330	3080	64 - 117
Fluoranthene	91.9	ug/kg	3330	3060	61 - 116
Fluorene	87.9	ug/kg	3330	2930	61 - 112
Indeno(1,2,3-cd)pyrene	90.4	ug/kg	3330	3010	62 - 113
Naphthalene	82.9	ug/kg	3330	2760	56 - 105
Phenanthrene	88.4	ug/kg	3330	2950	62 - 109
Pyrene	91.9	ug/kg	3330	3060	60 - 114
2,4,6-Tribromophenol (S)					
2-Fluorobiphenyl (S)	83.8	%			40 - 110
2-Fluorophenol (S)					
Nitrobenzene-d5 (S)	85.4	%			38 - 112
Phenol-d5 (S)					
Terphenyl-d14 (S)	94.7	%			45 - 126

MATRIX SPIKE: 3421459 DUPLICATE: 3421460 ORIGINAL: 3212409010

percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	0	ug/kg	3210	2534	3049.53	79.1	93.3	59 - 115	18.5	17
Acenaphthylene	0	ug/kg	3210	2554.85	2928.11	79.7	89.6	59 - 114	13.6	17
Anthracene	0	ug/kg	3210	2419.81	2878.28	75.5	88.1	63 - 112	17.3	20
Benzo(a)anthracene	0	ug/kg	3210	2587.29	2954.96	80.7	90.4	61 - 118	13.3	22
Benzo(a)pyrene	0	ug/kg	3210	2376.12	2657.17	74.1	81.3	61 - 114	11.2	24
Benzo(b)fluoranthene	0	ug/kg	3210	2539.54	2816.54	79.2	86.2	64 - 113	10.3	28
Benzo(g,h,i)perylene	0	ug/kg	3210	2429.8	2709.26	75.8	82.9	61 - 118	10.9	30
Benzo(k)fluoranthene	0	ug/kg	3210	2481.42	2788.32	77.4	85.3	62 - 113	11.6	22
Chrysene	0	ug/kg	3210	2536.22	2860.64	79.1	87.5	63 - 111	12	20
Dibenzo(a,h)anthracene	0	ug/kg	3210	2571.72	2887.37	80.2	88.4	64 - 117	11.6	28
Fluoranthene	0	ug/kg	3210	2464.81	2809.65	76.9	86	61 - 116	13.1	21
Fluorene	184.386	ug/kg	3210	2646.6	3236.73	76.8	93.4	61 - 112	20.1	16
Indeno(1,2,3-cd)pyrene	0	ug/kg	3210	2459.35	2674.02	76.7	81.8	62 - 113	8.36	30
Naphthalene	0	ug/kg	3210	2503.54	2811.19	78.1	86	56 - 105	11.6	21
Phenanthrene	331.879	ug/kg	3210	2758.74	3220.4	75.7	88.4	62 - 109	15.4	20
Pyrene	38.5536	ug/kg	3210	2711.25	3091.51	83.4	93.4	60 - 114	13.1	20
2-Fluorobiphenyl (S)	73.8	%				73.8	83.3	40 - 110		
Nitrobenzene-d5 (S)	73.3	%				73.3	84.6	38 - 112		
Terphenyl-d14 (S)	88	%				88	97.1	45 - 126		

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

QC Batch: EXTR/67242

Analysis Method: SW846 8270D

QC Batch Method: SW846 3510C

Associated Lab Samples: 3212409021

### METHOD BLANK: 3423460

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	1.5
Acenaphthylene	ND	ug/L	1.5
Anthracene	ND	ug/L	1.5
Benzo(a)anthracene	ND	ug/L	1.5
Benzo(a)pyrene	ND	ug/L	1.5
Benzo(b)fluoranthene	ND	ug/L	1.5
Benzo(g,h,i)perylene	ND	ug/L	1.5
Benzo(k)fluoranthene	ND	ug/L	1.5
Chrysene	ND	ug/L	1.5
Dibenzo(a,h)anthracene	ND	ug/L	1.5
Fluoranthene	ND	ug/L	1.5
Fluorene	ND	ug/L	1.5
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.5
Naphthalene	ND	ug/L	1.5
Phenanthrene	ND	ug/L	1.5
Pyrene	ND	ug/L	1.5
2-Fluorobiphenyl (S)	75.1	%	24 - 116
Nitrobenzene-d5 (S)	90.8	%	32 - 125
Terphenyl-d14 (S)	88	%	41 - 145

### LABORATORY CONTROL SAMPLE: 3423461

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	77.4	ug/L	50	38.7	36 - 130
Acenaphthylene	83	ug/L	50	41.5	39 - 130
Anthracene	82	ug/L	50	41.0	48 - 133
Benzo(a)anthracene	89	ug/L	50	44.5	51 - 127
Benzo(a)pyrene	88.5	ug/L	50	44.3	53 - 127
Benzo(b)fluoranthene	87.2	ug/L	50	43.6	53 - 131
Benzo(g,h,i)perylene	85.1	ug/L	50	42.5	54 - 131
Benzo(k)fluoranthene	92.7	ug/L	50	46.4	52 - 130
Chrysene	87.4	ug/L	50	43.7	50 - 131
Dibenzo(a,h)anthracene	89	ug/L	50	44.5	56 - 130
Fluoranthene	91.3	ug/L	50	45.7	49 - 132
Fluorene	82.4	ug/L	50	41.2	42 - 131

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### QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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Indeno(1,2,3-cd)pyrene	87.6	ug/L	50	43.8	55 - 126
Naphthalene	71.5	ug/L	50	35.7	21 - 123
Phenanthrene	84.6	ug/L	50	42.3	46 - 131
Pyrene	88.2	ug/L	50	44.1	48 - 134
2-Fluorobiphenyl (S)	80.4	%			24 - 116
Nitrobenzene-d5 (S)	96.4	%			32 - 125
Terphenyl-d14 (S)	90.7	%			41 - 145

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** EXTR/67243 **Analysis Method:** 8270 SIM  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3212409021

### METHOD BLANK: 3423462

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	0.10
Acenaphthylene	ND	ug/L	0.10
Anthracene	ND	ug/L	0.10
Benzo(a)anthracene	ND	ug/L	0.10
Benzo(a)pyrene	ND	ug/L	0.10
Benzo(b)fluoranthene	ND	ug/L	0.10
Benzo(g,h,i)perylene	ND	ug/L	0.10
Benzo(k)fluoranthene	ND	ug/L	0.10
Chrysene	ND	ug/L	0.10
Dibenzo(a,h)anthracene	ND	ug/L	0.070
Fluoranthene	ND	ug/L	0.10
Fluorene	ND	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10
Naphthalene	ND	ug/L	0.10
Phenanthrene	ND	ug/L	0.10
Pyrene	ND	ug/L	0.10
2-Methylnaphthalene-d10 (S)	69.5	%	29 - 112
Fluoranthene-d10 (S)	72.2	%	45 - 130

### LABORATORY CONTROL SAMPLE: 3423463

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	72.3	ug/L	1	0.72	46 - 121
Acenaphthylene	78.6	ug/L	1	0.79	49 - 122
Anthracene	71.9	ug/L	1	0.72	47 - 134
Benzo(a)anthracene	68	ug/L	1	0.68	51 - 141
Benzo(a)pyrene	67.6	ug/L	1	0.68	45 - 139
Benzo(b)fluoranthene	66.7	ug/L	1	0.67	48 - 147
Benzo(g,h,i)perylene	66.2	ug/L	1	0.66	43 - 153
Benzo(k)fluoranthene	67.4	ug/L	1	0.67	52 - 148
Chrysene	63.2	ug/L	1	0.63	52 - 144
Dibenzo(a,h)anthracene	70.6	ug/L	1	0.71	45 - 150
Fluoranthene	72.2	ug/L	1	0.72	51 - 149
Fluorene	76.3	ug/L	1	0.76	52 - 123
Indeno(1,2,3-cd)pyrene	69.8	ug/L	1	0.70	49 - 143

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**QUALITY CONTROL DATA**Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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Naphthalene	65.3	ug/L	1	0.65	44 - 113
Phenanthrene	70.5	ug/L	1	0.70	50 - 128
Pyrene	73.6	ug/L	1	0.74	48 - 143
2-Methylnaphthalene-d10 (S)	76.6	%			29 - 112
Fluoranthene-d10 (S)	74	%			45 - 130

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

QC Batch: MDIG/92632

Analysis Method: SW846 6020A

QC Batch Method: SW846 3015

Associated Lab Samples: 3212409021

Parameter	Blank Result	Units	Reporting Limit
Lead, Total	ND	mg/L	0.0022

Lead, Total	100	mg/L	.22	0.22	80 - 120
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MATRIX SPIKE: 3423909 DUPLICATE: 3423910 ORIGINAL: 3212923002

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	.00002	mg/L	.22	.23234	.22375	105	101	75 - 125	3.77	20

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** MDIG/92638**Analysis Method:** SW846 6020A**QC Batch Method:** SW846 3051**Associated Lab Samples:** 3212409001, 3212409002, 3212409003, 3212409004, 3212409005, 3212409006, 3212409007, 3212409008,  
3212409010, 3212409011, 3212409012, 3212409014, 3212409015, 3212409016

Lead, Total	ND	mg/kg	1.0
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Lead, Total	91.4	mg/kg	20	18.3	80 - 120
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Lead, Total	1.72117	mg/kg	17.5	18.21722	19.86794	94.4	99.6	75 - 125	8.67	20
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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** MDIG/92702**Analysis Method:** SW846 6020A**QC Batch Method:** SW846 3051**Associated Lab Samples:** 3212409017, 3212409018, 3212409019, 3212409020, 3212409023

Lead, Total	ND	mg/kg	1.0
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Lead, Total	96.2	mg/kg	20	19.2	80 - 120
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Lead, Total	.49506	mg/kg	17.3	18.29246	18.79444	103	107	75 - 125	2.71	20
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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** VOMS/61867 **Analysis Method:** SW846 8260C

**QC Batch Method:** SW846 8260C

**Associated Lab Samples:** 3212409021, 3212409022

METHOD BLANK: 3424293

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/L	10.0
Benzene	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
2-Butanone	ND	ug/L	10.0
Carbon Disulfide	ND	ug/L	1.0
Carbon Tetrachloride	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
Chlorodibromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Cyclohexane	ND	ug/L	1.0
1,2-Dibromo-3-chloropropane	ND	ug/L	7.0
1,2-Dibromoethane	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
Dichlorodifluoromethane	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
cis-1,3-Dichloropropene	ND	ug/L	1.0
trans-1,3-Dichloropropene	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Freon 113	ND	ug/L	1.0
2-Hexanone	ND	ug/L	5.0
Isopropylbenzene	ND	ug/L	1.0
Methyl acetate	ND	ug/L	2.0
Methyl cyclohexane	ND	ug/L	1.0
Methyl t-Butyl Ether	ND	ug/L	1.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/L	5.0

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### QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Methylene Chloride	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
Total Xylenes	ND	ug/L	3.0
1,2,3-Trichlorobenzene	ND	ug/L	2.0
1,2,4-Trichlorobenzene	ND	ug/L	2.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
Vinyl Chloride	ND	ug/L	1.0
o-Xylene	ND	ug/L	1.0
mp-Xylene	ND	ug/L	2.0
1,2-Dichloroethane-d4 (S)	98.5	%	62 - 133
4-Bromofluorobenzene (S)	110	%	79 - 114
Dibromofluoromethane (S)	89.2	%	78 - 116
Toluene-d8 (S)	99	%	76 - 127

#### LABORATORY CONTROL SAMPLE: 3424294

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acetone	113	ug/L	100	113	40 - 151
Benzene	97.2	ug/L	20	19.4	80 - 124
Bromochloromethane	99.2	ug/L	20	19.8	73 - 117
Bromodichloromethane	98.9	ug/L	20	19.8	79 - 126
Bromoform	87.9	ug/L	20	17.6	70 - 123
Bromomethane	100	ug/L	20	20.1	45 - 148
2-Butanone	121	ug/L	100	121	50 - 152
Carbon Disulfide	105	ug/L	20	20.9	57 - 131
Carbon Tetrachloride	89.1	ug/L	20	17.8	62 - 132
Chlorobenzene	91.6	ug/L	20	18.3	85 - 117
Chlorodibromomethane	90.6	ug/L	20	18.1	77 - 122
Chloroethane	89.7	ug/L	20	17.9	51 - 142
Chloroform	96.2	ug/L	20	19.2	78 - 122
Chloromethane	98.4	ug/L	20	19.7	38 - 156
Cyclohexane	97.4	ug/L	20	19.5	66 - 130
1,2-Dibromo-3-chloropropane	94.4	ug/L	20	18.9	59 - 133
1,2-Dibromoethane	98.4	ug/L	20	19.7	80 - 124
1,2-Dichlorobenzene	93.8	ug/L	20	18.8	82 - 118
1,3-Dichlorobenzene	94.1	ug/L	20	18.8	81 - 118
1,4-Dichlorobenzene	94.8	ug/L	20	19.0	81 - 116
Dichlorodifluoromethane	93	ug/L	20	18.6	17 - 166

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

1,1-Dichloroethane	95.5	ug/L	20	19.1	78 - 124
1,2-Dichloroethane	99.2	ug/L	20	19.8	70 - 133
1,1-Dichloroethene	106	ug/L	20	21.3	63 - 128
cis-1,2-Dichloroethene	99.7	ug/L	20	19.9	78 - 125
trans-1,2-Dichloroethene	101	ug/L	20	20.2	71 - 122
1,2-Dichloropropane	99.6	ug/L	20	19.9	81 - 127
cis-1,3-Dichloropropene	89.8	ug/L	20	18.0	81 - 121
trans-1,3-Dichloropropene	89.4	ug/L	20	17.9	78 - 126
Ethylbenzene	87.1	ug/L	20	17.4	80 - 124
Freon 113	121	ug/L	20	24.2	50 - 130
2-Hexanone	89.6	ug/L	100	89.6	65 - 154
Isopropylbenzene	98.7	ug/L	20	19.7	73 - 129
Methyl acetate	90.5	ug/L	20	18.1	70 - 130
Methyl cyclohexane	95.3	ug/L	20	19.1	70 - 130
Methyl t-Butyl Ether	101	ug/L	20	20.2	69 - 115
4-Methyl-2-Pentanone(MIBK)	95.1	ug/L	100	95.1	71 - 146
Methylene Chloride	101	ug/L	20	20.2	76 - 121
Styrene	92	ug/L	20	18.4	79 - 123
1,1,2,2-Tetrachloroethane	106	ug/L	20	21.2	74 - 135
Tetrachloroethene	87.8	ug/L	20	17.6	72 - 124
Toluene	96.2	ug/L	20	19.2	80 - 125
Total Xylenes	88.8	ug/L	60	53.3	79 - 125
1,2,3-Trichlorobenzene	88.6	ug/L	20	17.7	61 - 126
1,2,4-Trichlorobenzene	82.4	ug/L	20	16.5	67 - 123
1,1,1-Trichloroethane	98.6	ug/L	20	19.7	66 - 130
1,1,2-Trichloroethane	100	ug/L	20	20.1	82 - 126
Trichloroethene	87.4	ug/L	20	17.5	77 - 124
Trichlorofluoromethane	96.2	ug/L	20	19.2	38 - 123
Vinyl Chloride	94.2	ug/L	20	18.8	27 - 138
o-Xylene	92.9	ug/L	20	18.6	79 - 124
mp-Xylene	86.8	ug/L	40	34.7	79 - 125
1,2-Dichloroethane-d4 (S)	97.9	%			62 - 133
4-Bromofluorobenzene (S)	107	%			79 - 114
Dibromofluoromethane (S)	89.2	%			78 - 116
Toluene-d8 (S)	96.6	%			76 - 127

MATRIX SPIKE: 3424310 DUPLICATE: 3424311 ORIGINAL: 3212605001

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	0	ug/L	20	21.8948	20.6083	109	103	80 - 124	6.05	26
Ethylbenzene	0	ug/L	20	20.2013	18.688	101	93.4	80 - 124	7.78	19
Toluene	0	ug/L	20	21.5943	20.1493	108	101	80 - 125	6.92	20

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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Total Xylenes	0	ug/L	60	61.3198	57.0328	102	95.1	79 - 125	7.24	35
1,2-Dichloroethane-d4 (S)	104	%				104	103	62 - 133		
4-Bromofluorobenzene (S)	105	%				105	104	79 - 114		
Dibromofluoromethane (S)	92.3	%				92.3	90.5	78 - 116		
Toluene-d8 (S)	102	%				102	99.3	76 - 127		

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** VOMS/61896 **Analysis Method:** SW846 8260C

**QC Batch Method:** SW846 5035

**Associated Lab Samples:** 3212409002, 3212409004, 3212409005, 3212409006, 3212409007, 3212409010, 3212409011, 3212409012, 3212409014, 3212409015, 3212409016

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/kg	10.0
Benzene	ND	ug/kg	2.0
Bromochloromethane	ND	ug/kg	2.0
Bromodichloromethane	ND	ug/kg	2.0
Bromoform	ND	ug/kg	2.0
Bromomethane	ND	ug/kg	2.0
2-Butanone	ND	ug/kg	10.0
Carbon Disulfide	ND	ug/kg	2.0
Carbon Tetrachloride	ND	ug/kg	2.0
Chlorobenzene	ND	ug/kg	2.0
Chlorodibromomethane	ND	ug/kg	2.0
Chloroethane	ND	ug/kg	5.0
Chloroform	ND	ug/kg	2.0
Chloromethane	ND	ug/kg	2.0
Cyclohexane	ND	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.0
1,2-Dibromoethane	ND	ug/kg	2.0
1,2-Dichlorobenzene	ND	ug/kg	2.0
1,3-Dichlorobenzene	ND	ug/kg	2.0
1,4-Dichlorobenzene	ND	ug/kg	2.0
Dichlorodifluoromethane	ND	ug/kg	2.0
1,1-Dichloroethane	ND	ug/kg	2.0
1,2-Dichloroethane	ND	ug/kg	2.0
1,1-Dichloroethene	ND	ug/kg	2.0
cis-1,2-Dichloroethene	ND	ug/kg	2.0
trans-1,2-Dichloroethene	ND	ug/kg	2.0
1,2-Dichloropropane	ND	ug/kg	2.0
cis-1,3-Dichloropropene	ND	ug/kg	2.0
trans-1,3-Dichloropropene	ND	ug/kg	2.0
Ethylbenzene	ND	ug/kg	2.0
Freon 113	ND	ug/kg	2.0
2-Hexanone	ND	ug/kg	10.0
Isopropylbenzene	ND	ug/kg	2.0
Methyl acetate	ND	ug/kg	2.0
Methyl cyclohexane	ND	ug/kg	2.0
Methyl t-Butyl Ether	ND	ug/kg	2.0

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.0
Methylene Chloride	ND	ug/kg	2.0
Styrene	ND	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.0
Tetrachloroethene	ND	ug/kg	2.0
Toluene	ND	ug/kg	2.0
Total Xylenes	ND	ug/kg	6.0
1,2,3-Trichlorobenzene	ND	ug/kg	5.0
1,2,4-Trichlorobenzene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	2.0
1,1,2-Trichloroethane	ND	ug/kg	2.0
Trichloroethene	ND	ug/kg	2.0
Trichlorofluoromethane	ND	ug/kg	2.0
Vinyl Chloride	ND	ug/kg	2.0
o-Xylene	ND	ug/kg	2.0
mp-Xylene	ND	ug/kg	4.0
1,2-Dichloroethane-d4 (S)	74.6	%	56 - 124
4-Bromofluorobenzene (S)	80.4	%	51 - 128
Dibromofluoromethane (S)	78.8	%	62 - 123
Toluene-d8 (S)	77.4	%	59 - 131

LABORATORY CONTROL SAMPLE: 3425050 DUPLICATE: 3425051

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Acetone	122	ug/kg	100	122	119	119	58 - 146	2.49	40
Benzene	108	ug/kg	20	21.7	22.6	113	75 - 132	4.09	40
Bromochloromethane	104	ug/kg	20	20.7	21.0	105	71 - 120	1.01	40
Bromodichloromethane	106	ug/kg	20	21.2	21.8	109	74 - 127	2.62	40
Bromoform	101	ug/kg	20	20.2	20.7	103	68 - 131	2.32	40
Bromomethane	95.4	ug/kg	20	19.1	19.9	99.6	43 - 148	4.25	40
2-Butanone	121	ug/kg	100	121	116	116	64 - 148	3.51	40
Carbon Disulfide	122	ug/kg	20	24.3	25.0	125	47 - 144	2.73	40
Carbon Tetrachloride	109	ug/kg	20	21.8	23.0	115	64 - 136	5.14	40
Chlorobenzene	98.4	ug/kg	20	19.7	20.5	102	76 - 125	4.02	40
Chlorodibromomethane	101	ug/kg	20	20.2	20.7	103	75 - 124	2.25	40
Chloroethane	105	ug/kg	20	20.9	21.0	105	1 - 141	.6	40
Chloroform	102	ug/kg	20	20.5	21.2	106	73 - 126	3.45	40
Chloromethane	99.8	ug/kg	20	20.0	19.9	99.4	44 - 139	.39	40
Cyclohexane	128	ug/kg	20	25.7	27.5	137	62 - 143	6.62	40
1,2-Dibromo-3-chloropropane	95	ug/kg	20	19.0	18.8	93.9	52 - 151	1.17	40
1,2-Dibromoethane	98.6	ug/kg	20	19.7	19.8	99.2	76 - 127	.66	40
1,2-Dichlorobenzene	103	ug/kg	20	20.6	21.1	105	75 - 126	2.29	40
1,3-Dichlorobenzene	103	ug/kg	20	20.5	21.4	107	72 - 127	4.23	40

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

1,4-Dichlorobenzene	99.7	ug/kg	20	19.9	20.9	104	72 - 126	4.52	40
Dichlorodifluoromethane	98.3	ug/kg	20	19.7	21.2	106	16 - 152	7.74	40
1,1-Dichloroethane	106	ug/kg	20	21.3	22.2	111	74 - 131	4.12	40
1,2-Dichloroethane	105	ug/kg	20	21.0	22.1	110	69 - 132	5.11	40
1,1-Dichloroethene	120	ug/kg	20	23.9	25.1	125	59 - 139	4.71	40
cis-1,2-Dichloroethene	111	ug/kg	20	22.2	23.3	116	75 - 128	4.69	40
trans-1,2-Dichloroethene	112	ug/kg	20	22.4	22.8	114	66 - 133	1.76	40
1,2-Dichloropropane	108	ug/kg	20	21.6	22.2	111	78 - 131	2.91	40
cis-1,3-Dichloropropene	102	ug/kg	20	20.4	20.7	103	76 - 123	1.41	40
trans-1,3-Dichloropropene	104	ug/kg	20	20.9	21.2	106	77 - 123	1.73	40
Ethylbenzene	105	ug/kg	20	20.9	21.4	107	73 - 133	2.31	40
Freon 113	126*	ug/kg	20	25.2	27.7	138*	40 - 109	9.46	40
2-Hexanone	105	ug/kg	100	105	98.1	98.1	62 - 147	6.42	40
Isopropylbenzene	107	ug/kg	20	21.5	23.1	116	71 - 137	7.31	40
Methyl acetate	128	ug/kg	20	25.7	25.1	125	70 - 130	2.36	40
Methyl cyclohexane	121	ug/kg	20	24.2	26.3	132*	70 - 130	8.2	40
Methyl t-Butyl Ether	105	ug/kg	20	21.0	21.8	109	70 - 118	3.67	40
4-Methyl-2-Pentanone(MIBK)	91.9	ug/kg	100	91.9	88.4	88.4	64 - 143	3.85	40
Methylene Chloride	107	ug/kg	20	21.5	21.7	109	68 - 133	1.01	40
Styrene	92.2	ug/kg	20	18.4	19.3	96.7	77 - 130	4.76	40
1,1,2,2-Tetrachloroethane	105	ug/kg	20	21.0	20.9	105	72 - 134	.67	40
Tetrachloroethene	93	ug/kg	20	18.6	19.4	97	58 - 137	4.28	40
Toluene	102	ug/kg	20	20.5	21.2	106	73 - 129	3.41	40
Total Xylenes	101	ug/kg	60	60.6	63.6	106	73 - 130	4.73	40
1,2,3-Trichlorobenzene	106	ug/kg	20	21.2	22.1	111	68 - 129	4.39	40
1,2,4-Trichlorobenzene	106	ug/kg	20	21.3	22.4	112	63 - 132	5.4	40
1,1,1-Trichloroethane	110	ug/kg	20	22.0	22.5	113	68 - 131	2.13	40
1,1,2-Trichloroethane	103	ug/kg	20	20.6	20.2	101	79 - 123	2.15	40
Trichloroethene	101	ug/kg	20	20.1	22.0	110	72 - 129	8.9	40
Trichlorofluoromethane	102	ug/kg	20	20.3	21.6	108	40 - 130	5.95	40
Vinyl Chloride	103	ug/kg	20	20.6	21.0	105	53 - 141	1.7	40
o-Xylene	98.9	ug/kg	20	19.8	20.9	105	75 - 129	5.71	40
mp-Xylene	102	ug/kg	40	40.8	42.6	107	72 - 130	4.26	40
1,2-Dichloroethane-d4 (S)	109	%			109		56 - 124		
4-Bromofluorobenzene (S)	116	%			116		51 - 128		
Dibromofluoromethane (S)	108	%			108		62 - 123		
Toluene-d8 (S)	108	%			108		59 - 131		

MATRIX SPIKE: 3425076 DUPLICATE: 3425077 ORIGINAL: 3212409010

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acetone	16.2203	ug/kg	88.8	121.073	136.197	118	118	58 - 146	11.8	40

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### QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Benzene	0	ug/kg	17.8	15.2366	19.1753	85.8	94.5	75 - 132	22.9	40
Bromochloromethane	0	ug/kg	17.8	15.9947	19.4471	90.1	95.9	71 - 120	19.5	40
Bromodichloromethane	0	ug/kg	17.8	15.7222	20.2877	88.5	100	74 - 127	25.4	40
Bromoform	0	ug/kg	17.8	16.8216	18.2034	94.7	89.7	68 - 131	7.89	40
Bromomethane	0	ug/kg	17.8	12.7502	14.847	71.8	73.2	43 - 148	15.2	40
2-Butanone	0	ug/kg	88.8	93.9778	114.891	106	113	64 - 148	20	40
Carbon Disulfide	0	ug/kg	17.8	16.3249	20.247	91.9	99.8	47 - 144	21.4	40
Carbon Tetrachloride	0	ug/kg	17.8	13.8179	17.7706	77.8	87.6	64 - 136	25	40
Chlorobenzene	0	ug/kg	17.8	9.73186	14.7147	54.8*	72.5*	76 - 125	40.8	40
Chlorodibromomethane	0	ug/kg	17.8	10.7211	16.4752	60.4*	81.2	75 - 124	42.3	40
Chloroethane	0	ug/kg	17.8	13.6075	15.495	76.6	76.4	1 - 141	13	40
Chloroform	0	ug/kg	17.8	15.0742	18.7376	84.9	92.4	73 - 126	21.7	40
Chloromethane	0	ug/kg	17.8	12.7603	14.1694	71.8	69.9	44 - 139	10.5	40
Cyclohexane	20.7753	ug/kg	17.8	41.3544	35.426	116	72.2	62 - 143	15.4	40
1,2-Dibromo-3-chloropropane	0	ug/kg	17.8	37.424	35.0502	211*	173*	52 - 151	6.55	40
1,2-Dibromoethane	0	ug/kg	17.8	9.20432	15.3649	51.8*	75.7*	76 - 127	50.1	40
1,2-Dichlorobenzene	0	ug/kg	17.8	11.1074	14.7737	62.5*	72.8*	75 - 126	28.3	40
1,3-Dichlorobenzene	0	ug/kg	17.8	10.6678	14.0337	60.1*	69.2*	72 - 127	27.3	40
1,4-Dichlorobenzene	0	ug/kg	17.8	10.3104	13.6376	58*	67.2*	72 - 126	27.8	40
Dichlorodifluoromethane	0	ug/kg	17.8	12.8928	14.7304	72.6	72.6	16 - 152	13.3	40
1,1-Dichloroethane	0	ug/kg	17.8	15.3031	18.8091	86.2	92.7	74 - 131	20.6	40
1,2-Dichloroethane	0	ug/kg	17.8	15.7185	19.2877	88.5	95.1	69 - 132	20.4	40
1,1-Dichloroethene	0	ug/kg	17.8	17.0504	21.0381	96	104	59 - 139	20.9	40
cis-1,2-Dichloroethene	0	ug/kg	17.8	15.5568	19.9902	87.6	98.6	75 - 128	24.9	40
trans-1,2-Dichloroethene	0	ug/kg	17.8	15.4978	19.3758	87.3	95.5	66 - 133	22.2	40
1,2-Dichloropropane	0	ug/kg	17.8	15.0106	19.556	84.5	96.4	78 - 131	26.3	40
cis-1,3-Dichloropropene	0	ug/kg	17.8	9.13445	15.3415	51.4*	75.6*	76 - 123	50.7	40
trans-1,3-Dichloropropene	0	ug/kg	17.8	9.19005	15.4712	51.7*	76.3*	77 - 123	50.9	40
Ethylbenzene	0	ug/kg	17.8	7.9744	13.4967	44.9*	66.5*	73 - 133	51.4	40
Freon 113	0	ug/kg	17.8	15.8229	20.0124	89.1	98.7	40 - 109	23.4	40
2-Hexanone	0	ug/kg	88.8	65.4346	93.2972	73.7	92	62 - 147	35.1	40
Isopropylbenzene	9.88168	ug/kg	17.8	27.4986	22.3811	99.2	61.6*	71 - 137	20.5	40
Methyl acetate	0	ug/kg	17.8	18.4864	24.4166	104	120	70 - 130	27.6	40
Methyl t-Butyl Ether	0	ug/kg	17.8	16.4526	20.3338	92.6	100	70 - 118	21.1	40
4-Methyl-2-Pentanone(MIBK)	0	ug/kg	88.8	227.811	191.144	257*	188*	64 - 143	17.5	40
Methylene Chloride	0	ug/kg	17.8	15.8225	19.0983	89.1	94.2	68 - 133	18.8	40
Styrene	0	ug/kg	17.8	12.6541	15.4493	71.2*	76.2*	77 - 130	19.9	40
1,1,2,2-Tetrachloroethane	0	ug/kg	17.8	513.819	262.575	2890*	1290*	72 - 134	64.7	40
Tetrachloroethene	0	ug/kg	17.8	6.52429	11.574	36.7*	57.1*	58 - 137	55.8	40
Toluene	0	ug/kg	17.8	8.40566	14.3374	47.3*	70.7*	73 - 129	52.2	40
Total Xylenes	0	ug/kg	53.3	24.0613	40.7026	45.2*	66.9*	73 - 130	51.4	40
1,2,3-Trichlorobenzene	0	ug/kg	17.8	11.4966	19.9619	64.7*	98.4	68 - 129	53.8	40
1,2,4-Trichlorobenzene	0	ug/kg	17.8	4.5216	7.97568	25.5*	39.3*	63 - 132	55.3	40
1,1,1-Trichloroethane	0	ug/kg	17.8	14.8404	18.8605	83.6	93	68 - 131	23.9	40
1,1,2-Trichloroethane	0	ug/kg	17.8	515.553	366.489	2900*	1810*	79 - 123	33.8	40
Trichloroethene	0	ug/kg	17.8	15.0967	18.3599	85	90.5	72 - 129	19.5	40

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Trichlorofluoromethane	0	ug/kg	17.8	12.6301	14.5008	71.1	71.5	40 - 130	13.8	40
Vinyl Chloride	0	ug/kg	17.8	13.7629	15.2578	77.5	75.2	53 - 141	10.3	40
o-Xylene	0	ug/kg	17.8	9.07208	14.6841	51.1*	72.4*	75 - 129	47.2	40
mp-Xylene	0	ug/kg	35.5	14.9892	26.0184	42.2*	64.1*	72 - 130	53.8	40
1,2-Dichloroethane-d4 (S)	80.2	%				80.2	80.1	56 - 124		
4-Bromofluorobenzene (S)	85.9	%				85.9	82.9	51 - 128		
Dibromofluoromethane (S)	80.8	%				80.8	81.9	62 - 123		
Toluene-d8 (S)	57.1	%				57.1*	68	59 - 131		

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

QC Batch: VOMS/61904

Analysis Method: SW846 8260C

QC Batch Method: SW846 5035

Associated Lab Samples: 3212409001, 3212409003, 3212409008, 3212409017, 3212409018, 3212409019, 3212409020, 3212409023

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/kg	10.0
Benzene	ND	ug/kg	2.0
Bromochloromethane	ND	ug/kg	2.0
Bromodichloromethane	ND	ug/kg	2.0
Bromoform	ND	ug/kg	2.0
Bromomethane	ND	ug/kg	2.0
2-Butanone	ND	ug/kg	10.0
Carbon Disulfide	ND	ug/kg	2.0
Carbon Tetrachloride	ND	ug/kg	2.0
Chlorobenzene	ND	ug/kg	2.0
Chlorodibromomethane	ND	ug/kg	2.0
Chloroethane	ND	ug/kg	5.0
Chloroform	ND	ug/kg	2.0
Chloromethane	ND	ug/kg	2.0
Cyclohexane	ND	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.0
1,2-Dibromoethane	ND	ug/kg	2.0
1,2-Dichlorobenzene	ND	ug/kg	2.0
1,3-Dichlorobenzene	ND	ug/kg	2.0
1,4-Dichlorobenzene	ND	ug/kg	2.0
Dichlorodifluoromethane	ND	ug/kg	2.0
1,1-Dichloroethane	ND	ug/kg	2.0
1,2-Dichloroethane	ND	ug/kg	2.0
1,1-Dichloroethene	ND	ug/kg	2.0
cis-1,2-Dichloroethene	ND	ug/kg	2.0
trans-1,2-Dichloroethene	ND	ug/kg	2.0
1,2-Dichloropropane	ND	ug/kg	2.0
cis-1,3-Dichloropropene	ND	ug/kg	2.0
trans-1,3-Dichloropropene	ND	ug/kg	2.0
Ethylbenzene	ND	ug/kg	2.0
Freon 113	ND	ug/kg	2.0
2-Hexanone	ND	ug/kg	10.0
Isopropylbenzene	ND	ug/kg	2.0
Methyl acetate	ND	ug/kg	2.0
Methyl cyclohexane	ND	ug/kg	2.0
Methyl t-Butyl Ether	ND	ug/kg	2.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.0

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Methylene Chloride	ND	ug/kg	2.0
Styrene	ND	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.0
Tetrachloroethene	ND	ug/kg	2.0
Toluene	ND	ug/kg	2.0
Total Xylenes	ND	ug/kg	6.0
1,2,3-Trichlorobenzene	ND	ug/kg	5.0
1,2,4-Trichlorobenzene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	2.0
1,1,2-Trichloroethane	ND	ug/kg	2.0
Trichloroethene	ND	ug/kg	2.0
Trichlorofluoromethane	ND	ug/kg	2.0
Vinyl Chloride	ND	ug/kg	2.0
o-Xylene	ND	ug/kg	2.0
mp-Xylene	ND	ug/kg	4.0
1,2-Dichloroethane-d4 (S)	98.4	%	56 - 124
4-Bromofluorobenzene (S)	120	%	51 - 128
Dibromofluoromethane (S)	114	%	62 - 123
Toluene-d8 (S)	114	%	59 - 131

LABORATORY CONTROL SAMPLE: 3425430 DUPLICATE: 3425431

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Acetone	122	ug/kg	100	122	116	116	58 - 146	4.25	40
Benzene	117	ug/kg	20	23.4	22.2	111	75 - 132	4.94	40
Bromochloromethane	114	ug/kg	20	22.8	22.1	111	71 - 120	3.12	40
Bromodichloromethane	115	ug/kg	20	23.1	22.5	112	74 - 127	2.51	40
Bromoform	105	ug/kg	20	21.0	20.6	103	68 - 131	1.93	40
Bromomethane	101	ug/kg	20	20.2	17.8	88.9	43 - 148	12.6	40
2-Butanone	119	ug/kg	100	119	120	120	64 - 148	.8	40
Carbon Disulfide	127	ug/kg	20	25.3	23.8	119	47 - 144	6.27	40
Carbon Tetrachloride	114	ug/kg	20	22.7	22.1	111	64 - 136	2.61	40
Chlorobenzene	110	ug/kg	20	22.0	20.8	104	76 - 125	5.77	40
Chlorodibromomethane	112	ug/kg	20	22.4	21.4	107	75 - 124	4.18	40
Chloroethane	106	ug/kg	20	21.3	20.0	100	1 - 141	6.12	40
Chloroform	109	ug/kg	20	21.9	21.1	105	73 - 126	3.83	40
Chloromethane	99.2	ug/kg	20	19.8	18.5	92.5	44 - 139	6.98	40
Cyclohexane	135	ug/kg	20	27.0	25.0	125	62 - 143	7.91	40
1,2-Dibromo-3-chloropropane	95.7	ug/kg	20	19.1	18.5	92.3	52 - 151	3.65	40
1,2-Dibromoethane	113	ug/kg	20	22.6	21.5	108	76 - 127	5.04	40
1,2-Dichlorobenzene	108	ug/kg	20	21.6	21.1	105	75 - 126	2.16	40
1,3-Dichlorobenzene	110	ug/kg	20	22.0	20.7	103	72 - 127	6.44	40
1,4-Dichlorobenzene	107	ug/kg	20	21.4	20.3	102	72 - 126	5.01	40
Dichlorodifluoromethane	99.5	ug/kg	20	19.9	18.4	91.9	16 - 152	7.9	40

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

1,1-Dichloroethane	115	ug/kg	20	22.9	21.7	109	74 - 131	5.36	40
1,2-Dichloroethane	113	ug/kg	20	22.6	21.9	109	69 - 132	3.2	40
1,1-Dichloroethene	130	ug/kg	20	26.0	24.0	120	59 - 139	7.91	40
cis-1,2-Dichloroethene	116	ug/kg	20	23.3	22.6	113	75 - 128	3.04	40
trans-1,2-Dichloroethene	119	ug/kg	20	23.8	22.8	114	66 - 133	4.5	40
1,2-Dichloropropane	114	ug/kg	20	22.9	22.2	111	78 - 131	3.15	40
cis-1,3-Dichloropropene	114	ug/kg	20	22.9	21.4	107	76 - 123	6.83	40
trans-1,3-Dichloropropene	113	ug/kg	20	22.5	21.9	109	77 - 123	2.99	40
Ethylbenzene	116	ug/kg	20	23.2	21.2	106	73 - 133	9.27	40
Freon 113	144*	ug/kg	20	28.9	25.9	129*	40 - 109	11	40
2-Hexanone	104	ug/kg	100	104	104	104	62 - 147	.21	40
Isopropylbenzene	116	ug/kg	20	23.2	21.8	109	71 - 137	6.26	40
Methyl acetate	142*	ug/kg	20	28.4	27.7	138*	70 - 130	2.81	40
Methyl cyclohexane	136*	ug/kg	20	27.3	24.4	122	70 - 130	11.3	40
Methyl t-Butyl Ether	118	ug/kg	20	23.6	23.2	116	70 - 118	1.84	40
4-Methyl-2-Pentanone(MIBK)	93.5	ug/kg	100	93.5	92.9	92.9	64 - 143	.67	40
Methylene Chloride	113	ug/kg	20	22.7	22.0	110	68 - 133	3.07	40
Styrene	98.2	ug/kg	20	19.6	18.7	93.5	77 - 130	4.91	40
1,1,2,2-Tetrachloroethane	104	ug/kg	20	20.8	21.0	105	72 - 134	1.16	40
Tetrachloroethene	109	ug/kg	20	21.8	20.2	101	58 - 137	7.82	40
Toluene	114	ug/kg	20	22.8	20.9	105	73 - 129	8.35	40
Total Xylenes	116	ug/kg	60	69.6	64.5	107	73 - 130	7.59	40
1,2,3-Trichlorobenzene	118	ug/kg	20	23.5	23.0	115	68 - 129	2.35	40
1,2,4-Trichlorobenzene	120	ug/kg	20	24.1	22.5	112	63 - 132	6.95	40
1,1,1-Trichloroethane	120	ug/kg	20	24.0	22.1	111	68 - 131	8.29	40
1,1,2-Trichloroethane	110	ug/kg	20	22.0	21.1	105	79 - 123	4.17	40
Trichloroethene	111	ug/kg	20	22.3	21.2	106	72 - 129	5.2	40
Trichlorofluoromethane	107	ug/kg	20	21.3	19.8	98.8	40 - 130	7.6	40
Vinyl Chloride	104	ug/kg	20	20.9	19.3	96.3	53 - 141	8.05	40
o-Xylene	116	ug/kg	20	23.2	21.9	110	75 - 129	5.65	40
mp-Xylene	116	ug/kg	40	46.4	42.6	106	72 - 130	8.57	40
1,2-Dichloroethane-d4 (S)	106	%			106		56 - 124		
4-Bromofluorobenzene (S)	119	%			119		51 - 128		
Dibromofluoromethane (S)	110	%			110		62 - 123		
Toluene-d8 (S)	112	%			112		59 - 131		

MATRIX SPIKE SAMPLE: 3425594 ORIGINAL: 3212409018

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Acetone	20.5669	ug/kg	94	137.664	125	58 - 146
Benzene	0	ug/kg	18.8	18.1287	96.4	75 - 132
Bromochloromethane	0	ug/kg	18.8	18.7457	99.7	71 - 120

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Bromodichloromethane	0	ug/kg	18.8	18.9657	101	74 - 127
Bromoform	0	ug/kg	18.8	16.0802	85.5	68 - 131
Bromomethane	0	ug/kg	18.8	14.6695	78	43 - 148
2-Butanone	0	ug/kg	94	109.61	117	64 - 148
Carbon Disulfide	0	ug/kg	18.8	19.6254	104	47 - 144
Carbon Tetrachloride	0	ug/kg	18.8	20.4255	109	64 - 136
Chlorobenzene	0	ug/kg	18.8	15.6925	83.5	76 - 125
Chlorodibromomethane	0	ug/kg	18.8	17.1887	91.4	75 - 124
Chloroethane	0	ug/kg	18.8	15.4776	82.3	1 - 141
Chloroform	0	ug/kg	18.8	17.433	92.7	73 - 126
Chloromethane	0	ug/kg	18.8	14.4009	76.6	44 - 139
Cyclohexane	0	ug/kg	18.8	20.0627	107	62 - 143
1,2-Dibromo-3-chloropropane	0	ug/kg	18.8	14.4922	77.1	52 - 151
1,2-Dibromoethane	0	ug/kg	18.8	16.7036	88.9	76 - 127
1,2-Dichlorobenzene	0	ug/kg	18.8	13.9893	74.4*	75 - 126
1,3-Dichlorobenzene	0	ug/kg	18.8	13.8216	73.5	72 - 127
1,4-Dichlorobenzene	0	ug/kg	18.8	13.2505	70.5*	72 - 126
Dichlorodifluoromethane	0	ug/kg	18.8	15.5337	82.6	16 - 152
1,1-Dichloroethane	0	ug/kg	18.8	17.8603	95	74 - 131
1,2-Dichloroethane	0	ug/kg	18.8	18.676	99.4	69 - 132
1,1-Dichloroethene	0	ug/kg	18.8	20.4328	109	59 - 139
cis-1,2-Dichloroethene	0	ug/kg	18.8	18.4017	97.9	75 - 128
trans-1,2-Dichloroethene	0	ug/kg	18.8	18.4989	98.4	66 - 133
1,2-Dichloropropane	0	ug/kg	18.8	18.4725	98.3	78 - 131
cis-1,3-Dichloropropene	0	ug/kg	18.8	16.8902	89.9	76 - 123
trans-1,3-Dichloropropene	0	ug/kg	18.8	17.0718	90.8	77 - 123
Ethylbenzene	0	ug/kg	18.8	16.3161	86.8	73 - 133
Freon 113	0	ug/kg	18.8	21.328	113*	40 - 109
2-Hexanone	0	ug/kg	94	87.0508	92.6	62 - 147
Isopropylbenzene	0	ug/kg	18.8	15.3375	81.6	71 - 137
Methyl acetate	0	ug/kg	18.8	46.4968	247*	70 - 130
Methyl cyclohexane	0	ug/kg	18.8	18.3213	97.5	70 - 130
Methyl t-Butyl Ether	0	ug/kg	18.8	19.2361	102	70 - 118
4-Methyl-2-Pentanone(MIBK)	0	ug/kg	94	75.8234	80.7	64 - 143
Methylene Chloride	0	ug/kg	18.8	18.5169	98.5	68 - 133
Styrene	0	ug/kg	18.8	13.63	72.5*	77 - 130
1,1,1,2-Tetrachloroethane	0	ug/kg	18.8	16.4222	87.4	72 - 134
Tetrachloroethene	0	ug/kg	18.8	16.1911	86.1	58 - 137
Toluene	0	ug/kg	18.8	16.692	88.8	73 - 129
Total Xylenes	0	ug/kg	56.4	47.6952	84.6	73 - 130
1,2,3-Trichlorobenzene	0	ug/kg	18.8	11.2032	59.6*	68 - 129
1,2,4-Trichlorobenzene	0	ug/kg	18.8	11.5985	61.7*	63 - 132
1,1,1-Trichloroethane	0	ug/kg	18.8	18.3361	97.5	68 - 131
1,1,2-Trichloroethane	0	ug/kg	18.8	17.1883	91.4	79 - 123
Trichloroethene	0	ug/kg	18.8	17.8474	94.9	72 - 129
Trichlorofluoromethane	0	ug/kg	18.8	16.0084	85.2	40 - 130

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**QUALITY CONTROL DATA**Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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Vinyl Chloride	0	ug/kg	18.8	15.6978	83.5	53 - 141
o-Xylene	0	ug/kg	18.8	15.7807	84	75 - 129
mp-Xylene	0	ug/kg	37.6	31.9145	84.9	72 - 130
1,2-Dichloroethane-d4 (S)	78.4	%				56 - 124
4-Bromofluorobenzene (S)	88.4	%				51 - 128
Dibromofluoromethane (S)	81	%				62 - 123
Toluene-d8 (S)	75.6	%				59 - 131

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## QUALITY CONTROL DATA

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** VOMS/61915 **Analysis Method:** SW846 8260C  
**QC Batch Method:** SW846 5035  
**Associated Lab Samples:** 3212409010

### METHOD BLANK: 3425613

Parameter	Blank Result	Units	Reporting Limit
Methyl cyclohexane	ND	ug/kg	50.0
1,2-Dichloroethane-d4 (S)	108	%	71 - 146
4-Bromofluorobenzene (S)	115	%	46 - 138
Dibromofluoromethane (S)	91.2	%	42 - 143
Toluene-d8 (S)	118	%	54 - 141

### LABORATORY CONTROL SAMPLE: 3425614

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Methyl cyclohexane	109	ug/kg	1000	1090	70 - 130
1,2-Dichloroethane-d4 (S)	115	%			71 - 146
4-Bromofluorobenzene (S)	122	%			46 - 138
Dibromofluoromethane (S)	103	%			42 - 143
Toluene-d8 (S)	118	%			54 - 141

### MATRIX SPIKE: 3425615 DUPLICATE: 3425616 ORIGINAL: 3212409010

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Methyl cyclohexane	225.216	ug/kg	803	1341.06	1292.58	139*	133*	70 - 130	3.68	40
1,2-Dichloroethane-d4 (S)	62.4	%				62.4*	63.2*	71 - 146		
4-Bromofluorobenzene (S)	89.9	%				89.9	93.5	46 - 138		
Dibromofluoromethane (S)	65.1	%				65.1	64.9	42 - 143		
Toluene-d8 (S)	76.4	%				76.4	77.2	54 - 141		

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** VOMS/61938**Analysis Method:** SW846 8260C**QC Batch Method:** SW846 5035**Associated Lab Samples:** 3212409003, 3212409008

Isopropylbenzene	ND	ug/kg	50.0
Methyl cyclohexane	ND	ug/kg	50.0
1,2-Dichloroethane-d4 (S)	108	%	71 - 146
4-Bromofluorobenzene (S)	113	%	46 - 138
Dibromofluoromethane (S)	90.5	%	42 - 143
Toluene-d8 (S)	114	%	54 - 141

Isopropylbenzene	114	ug/kg	1000	1140	72 - 137
Methyl cyclohexane	105	ug/kg	1000	1050	70 - 130
1,2-Dichloroethane-d4 (S)	111	%			71 - 146
4-Bromofluorobenzene (S)	111	%			46 - 138
Dibromofluoromethane (S)	101	%			42 - 143
Toluene-d8 (S)	111	%			54 - 141

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QC Batch:** WETC/262849**Analysis Method:** S2540G-11**QC Batch Method:** S2540G-11**Associated Lab Samples:** 3212409001, 3212409002, 3212409003, 3212409004, 3212409005, 3212409006, 3212409007, 3212409008, 3212409010, 3212409011, 3212409012, 3212409013, 3212409014, 3212409015

Moisture	34.7053	%	27.7393	22.3*	10
Total Solids	65.2946	%	72.2606	10.1*	5

Moisture	0	%	0	NC	10
Total Solids	100	%	100	0	5

Moisture	23.1308	%	24.3767	5.25	10
Total Solids	76.8691	%	75.6232	1.63	5

Moisture	17.5796	%	17.0323	3.16	10
Total Solids	82.4203	%	82.9676	.66	5

Moisture	16.8011	%	15.8439	5.86	10
Total Solids	83.1988	%	84.156	1.14	5

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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Moisture	99.4705	%	99.5279	.06	10
Total Solids	.5294	%	.472	11.5*	5

Moisture	16.2608	%	18.0731	10.6*	10
Total Solids	83.7391	%	81.9268	2.19	5

Total Solids	5.7908	%	5.7029	1.53	5
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**QUALITY CONTROL DATA**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

QC Batch: WETC/262921

Analysis Method: S2540G-11

QC Batch Method: S2540G-11

Associated Lab Samples: 3212409016, 3212409017, 3212409018, 3212409019, 3212409020, 3212409023

Moisture	98.26	%	98.1432	.12	10
Total Solids	1.7399	%	1.8567	6.5*	5

Moisture	15.3594	%	15.1953	1.07	10
Total Solids	84.6405	%	84.8046	.19	5

Moisture	68.9134	%	68.6567	.37	10
Total Solids	31.0865	%	31.3432	.82	5

Moisture	22.5563	%	22.9149	1.58	10
Total Solids	77.4436	%	77.085	.46	5

Total Solids	2.0862	%	1.6949	20.7*	5
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**QUALITY CONTROL DATA**Workorder: 3212409 VHB001|Caneel Bay USVI 11910

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Moisture	4.3986	%	4.4917	2.09	10
Total Solids	95.6013	%	95.5082	.1	5

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**QUALITY CONTROL DATA QUALIFIERS**

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

**QUALITY CONTROL PARAMETER QUALIFIERS**

Lab ID	#	Sample Type	Analytical Method	Analyte
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<b>3425050</b>	1	Lab Control Standard	SW846 8260C	Freon 113
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The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 126 and the control limits were 40 to 109.

<b>3425430</b>	3	Lab Control Standard	SW846 8260C	Methyl acetate
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The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3212409001	SC-2-06-7	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409002	SC-2-06-8	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409003	SC-2-07-8.5	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409004	SC-2-07-12.5	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409005	SC-2-08-15	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409006	SC-2-09-5	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409007	SC-2-09-13.5	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409008	SC-2-10-13	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409010	SC-2-11-8	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409011	SC-2-101	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409012	SC-2-102	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409014	SC-2-12-8	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409015	SC-2-13-6	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409016	SC-2-14-7.3	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409017	SC-2-15-2.8	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409018	SC-2-16-2.4	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409019	SC-2-17-20	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409020	SC-2-18-6.7	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409023	SC-2-17-9.5	SW846 3546A	EXTR/67193	SW846 8270D	SVMS/40381
3212409001	SC-2-06-7			S2540G-11	WETC/262849
3212409002	SC-2-06-8			S2540G-11	WETC/262849
3212409003	SC-2-07-8.5			S2540G-11	WETC/262849
3212409004	SC-2-07-12.5			S2540G-11	WETC/262849
3212409005	SC-2-08-15			S2540G-11	WETC/262849
3212409006	SC-2-09-5			S2540G-11	WETC/262849
3212409007	SC-2-09-13.5			S2540G-11	WETC/262849
3212409008	SC-2-10-13			S2540G-11	WETC/262849
3212409010	SC-2-11-8			S2540G-11	WETC/262849
3212409011	SC-2-101			S2540G-11	WETC/262849
3212409012	SC-2-102			S2540G-11	WETC/262849
3212409014	SC-2-12-8			S2540G-11	WETC/262849
3212409015	SC-2-13-6			S2540G-11	WETC/262849

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3212409016	SC-2-14-7.3			S2540G-11	WETC/262921
3212409017	SC-2-15-2.8			S2540G-11	WETC/262921
3212409018	SC-2-16-2.4			S2540G-11	WETC/262921
3212409019	SC-2-17-20			S2540G-11	WETC/262921
3212409020	SC-2-18-6.7			S2540G-11	WETC/262921
3212409023	SC-2-17-9.5			S2540G-11	WETC/262921
3212409021	EB-SOIL-20211111	SW846 3510C	EXTR/67242	SW846 8270D	SVMS/40386
3212409021	EB-SOIL-20211111	SW846 3510C	EXTR/67243	8270 SIM	SVMS/40407
3212409021	EB-SOIL-20211111	SW846 3015	MDIG/92632	SW846 6020A	META/84308
3212409001	SC-2-06-7	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409002	SC-2-06-8	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409003	SC-2-07-8.5	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409004	SC-2-07-12.5	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409005	SC-2-08-15	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409006	SC-2-09-5	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409007	SC-2-09-13.5	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409008	SC-2-10-13	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409010	SC-2-11-8	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409011	SC-2-101	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409012	SC-2-102	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409014	SC-2-12-8	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409015	SC-2-13-6	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409016	SC-2-14-7.3	SW846 3051	MDIG/92638	SW846 6020A	META/84295
3212409021	EB-SOIL-20211111			SW846 8260C	VOMS/61867
3212409022	TB-20211111			SW846 8260C	VOMS/61867

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3212409 VHB001|Caneel Bay USVI 11910

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3212409002	SC-2-06-8	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409004	SC-2-07-12.5	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409005	SC-2-08-15	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409006	SC-2-09-5	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409007	SC-2-09-13.5	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409010	SC-2-11-8	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409011	SC-2-101	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409012	SC-2-102	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409014	SC-2-12-8	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409015	SC-2-13-6	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409016	SC-2-14-7.3	SW846 5035	VOMS/61896	SW846 8260C	VOMS/61897
3212409001	SC-2-06-7	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409003	SC-2-07-8.5	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409008	SC-2-10-13	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409017	SC-2-15-2.8	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409018	SC-2-16-2.4	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409019	SC-2-17-20	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409020	SC-2-18-6.7	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409023	SC-2-17-9.5	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3212409010	SC-2-11-8	SW846 5035	VOMS/61915	SW846 8260C	VOMS/61916
3212409017	SC-2-15-2.8	SW846 3051	MDIG/92702	SW846 6020A	META/84388
3212409018	SC-2-16-2.4	SW846 3051	MDIG/92702	SW846 6020A	META/84388
3212409019	SC-2-17-20	SW846 3051	MDIG/92702	SW846 6020A	META/84388
3212409020	SC-2-18-6.7	SW846 3051	MDIG/92702	SW846 6020A	META/84388
3212409023	SC-2-17-9.5	SW846 3051	MDIG/92702	SW846 6020A	META/84388
3212409003	SC-2-07-8.5	SW846 5035	VOMS/61938	SW846 8260C	VOMS/61939
3212409008	SC-2-10-13	SW846 5035	VOMS/61938	SW846 8260C	VOMS/61939

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



301 Filling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC  
ALS



3212409

Client Name: VHB		Container Type	C	TCK	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	4 oz	40 ml	W.O. Temp: 3 Therm ID: 573	
Contact: Ben Deede		Preservative	NA	MeOH, DI	Courier/Tracking #:	
Phone#: 401-447-8254		Purchase Order #: 21101051				
Project Name#: Caneel Bay USVI		Project Comments:				
Bill To: VHB, Montpelier, VT		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:				
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		Sample/COC Comments				
Date Required:						
Email? <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rkay@vhb.com						
Fax? <input type="checkbox"/> -Y No:						
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm			
1	SC-2-06-7	11/09/21	16:30	G	S	1 4
2	SC-2-06-8	11/09/21	16:45	G	S	1 4
3	SC-2-07-8.5	11/10/21	09:25	G	S	1 4
4	SC-2-07-12.5	11/10/21	09:35	G	S	1 4
5	SC-2-08-15	11/10/21	10:10	G	S	1 4
6	SC-2-09-5	11/10/21	11:30	G	S	1 4
7	SC-2-09-13.5	11/10/21	11:35	G	S	1 4
8	SC-2-10-13	11/10/21	13:40	G	S	1 4
9	SC-2-10-17	11/10/21	13:20	G	S	1 4
10	SC-2-11-8 + MS/MSD	11/10/21	15:20	G	S	1 12
SAMPLER COMMENTS: 4 coolers						
Redelivered By / Company Name		Date	Time	Received By / Company Name		
VHB		11/12/21	10:20	Fedex		
Fedex				11/12/21		
				6		
				8		
				10		
G=Grab; C=Composite		**Matrix: AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater				





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CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 3  
ALS Quote #:

Client Name: VHB		Container Type	C	TCK	Receipt Information (Completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	4 oz	40 ml	W.O. Temp: 3 Therm ID: 573	
Contact: Ben Deede		Preservative	NA	MeOH, DI	Courier/Tracking #:	
Phone#: 401-447-8254		Purchase Order #: 211101051				
Project Name#: Caneel Bay USVI		Project Comments:				
Bill To: VHB, Montpelier, VT						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.						
Date Required: Approved?						
Email? <input checked="" type="checkbox"/> Y bdeede@vhb.com, rkay@vhb.com						
Fax? <input type="checkbox"/> Y No:						
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.		
11 SC-2-101		11/10/21	07:00	G	S	1 4
12 SC-2-102		11/10/21	08:00	G	S	1 4
13 SC-2-11-10		11/10/21	15:25	G	S	1 4
14 SC-2-12-8		11/10/21	16:15	G	S	1 4
15 SC-2-13-6		11/10/21	16:30	G	S	1 4
16 SC-2-14-7.3		11/11/21	08:30	G	S	1 4
17 SC-2-15-2.8		11/11/21	09:00	G	S	1 4
18 SC-2-16-2.4		11/11/21	09:30	G	S	1 4
19 SC-2-17-9.5		11/11/21	13:50	G	S	1 4
20 SC-2-17-20		11/11/21	13:55	G	S	1 4
SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)		Sampler Comments:				
Relinquished By / Company Name		Date	Time	Received By / Company Name	Date	Time
1 2-22 VHB		11/12/21	10:00	Fedex		
3 2-22 VHB		11/12/21	10:00	Fedex		
5 2-22 VHB		11/12/21	10:00	Fedex		
7 2-22 VHB		11/12/21	10:00	Fedex		
9 2-22 VHB		11/12/21	10:00	Fedex		
State Samples Collected In		Special Processing		Special Disposal		
USACE <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD <input type="checkbox"/> Navy <input type="checkbox"/> USACE <input type="checkbox"/> Navy <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>		Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Sample Disposal		
PW/SID #		EDDS: Format Type		other		

\* G=Grab, C=Composite \*\*Matrix - AL=Air, DW=Drinking Water, GW=Groundwater, OL=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater  
ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057  
Rev 11/18





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Middletown, PA 17057  
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F. 717-944-1430

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3  
of 3  
ALS Quote #: 3

Client Name: VHB		Container Type	CG	TCK	AG	P	CG	Receipt Information (Completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	4 oz	40 ml	1 L	125 ml	40 ml	W.O. Temp: <u>3</u> Therm ID: <u>573</u>	
Contact: Ben Deede		Preservative	NA	MeOH, D	NA	HNO3	HCL	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED							Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Project Comments:							
Bill To: VHB, Montpelier, VT									
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.									
Date Required: <u>11/11/21</u>									
Email? <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rkay@vhb.com									
Fax? <input type="checkbox"/> -Y No:									
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.					
21 SC-2-18-6.7		11/11/21	14:45	1	4				
22 EB-SOIL-20211111		11/11/21	15:30	G	W	2	1	2	
23 TB-20211111		11/11/21	NA	G	S			3	
24									
25									
26									
27									
28									
29									
30									
SAMPLER COMMENTS: (Please Print) Ben Deede (BND), Ben Bliss (BRB)		Sample/COC Comments: Only 2 vials provided per sample							
Relinquished By / Company Name <u>Ben Deede VHB</u>		Date <u>11/11/21</u>	Time <u>14:45</u>	Received By / Company Name <u>Fedex</u>		Date <u>11/11/21</u>	Time <u>14:45</u>	State Samples Collected In USACE <input type="checkbox"/> Navy <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>	
3 <u>Fedex</u>		4	6	Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		PWSID #		Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
5		6	8						
7		8	10						
9		10							

\* G=Grab; C=Composite

\*\*Matrix - Air=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Middletown, PA 17057

Rev 11/18





301 Fulling Mill Road  
Middletown, PA 17057

P: (717) 944-554

F: (717) 944-143

3212409

## Condition of Sample Receipt Form

Client:

VHB - Vermont

Initials:

Date:

SH

11/15/21

1. Were airbills / tracking numbers present and recorded?..... NONE YES NO  
Tracking number: 8128 4676 3370
2. Are Custody Seals on shipping containers intact?..... NONE YES NO
3. Are Custody Seals on sample containers intact?..... NONE YES NO
4. Is there a COC (Chain-of-Custody) present?..... YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... YES NO
- 5a. Does the COC contain sample locations?..... YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... YES NO
- 5c. Does the COC contain sample collectors name?..... YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... YES NO
- 5g. Does the COC note the matrix of the sample(s)?..... YES NO
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... YES NO
8. Are all samples within holding times for the requested analyses?..... YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... YES NO
10. Did we receive trip blanks ( applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... N/A YES NO
11. Were the samples received on ice?..... YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... YES NO
13. Are the samples DW matrix? If YES, fill out Reportable Drinking Water questions below..... YES NO
- 13a. Are the samples required for SDWA compliance reporting?..... N/A YES NO
- 13b. Did the client provide a SDWA PWS ID#?..... N/A YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES NO

Cooler #:

Temperature (°C):

Thermometer ID:

Radiological (µCi):

3

573

COMMENTS (Required for all NO responses above and any sample non-conformance):

<sup>1</sup>Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

## SDG 3213457 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
EB-SOIL-20211113	11/15/2021	SW846 8081B SW846 6020A	Primary
EB-SOIL-20211116	11/16/2021	SW846 8260C 8270 SIM SW846 8270D SW846 8082A SW846 8081B SW846 6020A	Primary
IA-CB-01 A	11/13/2021	SW846 8081B	Primary
IA-CB-01 B	11/13/2021	SW846 8081B	Primary
IA-CB-01 C	11/13/2021	SW846 8081B	Primary
IA-CB-02 A	11/13/2021	SW846 8081B	Primary
IA-CB-02 B	11/13/2021	SW846 8081B	Primary
IA-CB-02 C	11/13/2021	SW846 8081B	Primary
IA-Ref-03 A	11/13/2021	SW846 6020A	Primary
IA-Ref-03 B	11/13/2021	SW846 6020A	Primary
IA-Ref-03 C	11/13/2021	SW846 6020A	Primary
IA-Ref-04 A	11/15/2021	SW846 6020A	Primary
IA-Ref-04 B	11/15/2021	SW846 6020A	Primary
IA-Ref-04 C	11/15/2021	SW846 6020A	Primary
SC-07-101	11/12/2021	SW846 8260C SW846 8270D SW846 6020A	Duplicate
SC-1-01-0.5	11/15/2021	SW846 8260C SW846 8082A SW846 8081B SW846 8270D SW846 6020A	Primary
SC-1-01-17	11/15/2021	SW846 8260C SW846 8082A SW846 8081B	Primary

Sample Delivery Group 3213457 – Data Review

		SW846 8270D SW846 6020A	
SC-1-02-0.5	11/15/2021	SW846 8260C SW846 8082A SW846 8081B SW846 8270D SW846 6020A	Primary
SC-1-02-4.3	11/15/2021	SW846 8260C SW846 8082A SW846 8081B SW846 8270D SW846 6020A	Primary
SC-1-03-0.5	11/15/2021	SW846 8260C SW846 8082A SW846 8081B SW846 8270D SW846 6020A	Primary
SC-1-03-4	11/15/2021	SW846 8260C SW846 8082A SW846 8081B SW846 8270D SW846 6020A	Primary
SC-1-101	11/15/2021	SW846 8260C SW846 8270D SW846 8081B SW846 8082A SW846 6020A	Duplicate
SC-2-19-20	11/12/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
SC-2-20-15	11/12/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
SC-2-21-15	11/16/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
SC-2-22-18	11/16/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
SC-C7-01-5	11/12/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
SC-C7-02-5	11/12/2021	SW846 8260C SW846 8270D	Primary

## Sample Delivery Group 3213457 – Data Review

		SW846 6020A	
SC-C7-03-6.6	11/12/2021	SW846 8260C SW846 8270D SW846 6020A	Primary
TB-20211116	11/16/2021	SW846 8260C	Primary

### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3213457 listed the sample dates as 11/12/2021, 11/13/2021, 11/15/2021, and 11/15/2021. According to the COCs, the temperature of the cooler at receipt was 1 and 3°C and in below average condition. The hold time was exceeded for EPA 8081B, 8082A, and 8270D; therefore, the affected results are qualified with NJ;HT or UJ;HT (if result is ND).

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were provided for the SDG.

#### II. Initial Calibration

The initial calibration standards were not provided for the SDG.

#### III. Continuing Calibration

The continuing calibration standards were not provided for the SDG.

#### IV. Blanks

18 method blanks were analyzed for the samples in SDG 3213457. The method blanks did not have detections for any analytes except for bromomethane; therefore, the affected samples are qualified J;MB or U;MB if ND.

#### V. Surrogate Percent Recovery Compounds

All reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3213457 met QC criteria; therefore, no qualification of the data is necessary.

#### VI. Matrix Spikes/ Matrix Spike Duplicates

The MS/MSD was analyzed for pesticides to identify the interaction of the sample matrix with various analytes. EPA 8081B was used in the analysis; the percent recoveries were within QC limits except for 4,4'-DDE, 4,4'-DDT, Dieldrin; therefore, all affected samples are qualified J;MS and/or J;MSD (U;MD and/or U;MSD if ND).

## Sample Delivery Group 3213457 – Data Review

The MS/MSD was analyzed for SVOCs to identify the interaction of the sample matrix with various analytes. EPA 8270D was used in the analysis; the percent recoveries were within QC limits except for fluoranthene, phenanthrene, and pyrene; therefore, all affected samples are qualified J;MS and J;MSD (U;MD and/or U;MSD if ND). Relative percent differences were not within QC limits for fluoranthene, phenanthrene, pyrene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, and chrysene; therefore, the affected samples are qualified with J;MS and J;MSD (U;MD and/or U;MSD if ND).

The MS/MSD was analyzed for metals to identify the interaction of the sample matrix with various analytes. EPA 6020A was used in the analysis; the percent recoveries were within QC limits; therefore, no qualification of the data is necessary.

The MS/MSD was analyzed for VOCs to identify the interaction of the sample matrix with various analytes. EPA 8260C was used in the analysis; the analytes below exceeded the percent recovery and/or relative percent difference QC limits; therefore, the affected samples are qualified J;MS and/or J;MSD (U;MD and/or U;MSD if ND).

MS MSD	benzene
MS MSD	bromochloromethane
MS MSD	bromodichloromethane
MS MSD	bromoform
MS	bromomethane
MS MSD	carbon tetrachloride
MS MSD	chlorobenzene
MS MSD	chlorodibromomethane
MS MSD	chloroform
MS	chloromethane
MS MSD	cyclohexane
MS MSD	1,2-dibromo-3-chloropropane
MS MSD	1,2-dibromoethane
MS MSD	1,2-dichlorobenzene
MS MSD	1,3-dichlorobenzene
MS MSD	1,4-dichlorobenzene
MS	dichlorodifluoromethane
MS MSD	1,1-dichloroethane
MS MSD	1,2-dichloroethane
MS MSD	cis-1,2-dichloroethane
MS MSD	trans-1,2-dichloroethane
MS MSD	1,2-dichloropropane
MS MSD	cis-1,3-dichloropropene
MS MSD	trans-1,3-dichloropropene



## Sample Delivery Group 3213457 – Data Review

MS MSD	ethylbenzene
MS	freon 113
MSD	2-hexanone
MS MSD	isopropylbenzene
MS MSD	methyl cyclohexane
MS MSD	methyl t-butyl ether
MS MSD	MIBK
MS MSD	methylene chloride
MS	methyl acetate
MS MSD	styrene
MS MSD	1,1,2,2-tetrachloroethane
MS MSD	tetrachloroethene
MS MSD	toluene
MS MSD	total xylenes
MS MSD	1,2,3-trichlorobenzene
MS MSD	1,2,4-trichlorobenzene
MS MSD	1,1,1-trichloroethane
MS MSD	1,1,2-trichloroethane
MS MSD	trichloroethene
MS	trichlorofluoromethane
MS MSD	vinyl chloride
MS MSD	o-xylene
MS MSD	mp-xylene

### VII. Laboratory Control Sample/ Laboratory Control Sample Duplicates

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3213457 using EPA 8260C. The percent recoveries were within acceptable QC limits expect for freon 113; methyl acetate; methyl cyclohexane; therefore, the affected samples are qualified J;LCS and/or J;LCSD (U;LCS and/or U:LCSD if ND).

LCS/LCSD samples were analyzed in SDG 3213457 using EPA 8260C. The percent recoveries were within acceptable QC limits expect for freon 113; therefore, the affected samples are qualified J;LCS and/or J;LCSD (U;LCS and/or U:LCSD if ND).

### VIII. Duplicate Analysis LCSD

The relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

### IX. Regional Quality Assurance and Quality Control

Samples SC-1-101 and SC-C7-101 (primary samples (SC-1-02-4.3 and SC-C7-03-6.6)) were designated as field duplicates. All the quality assurance and quality control criteria were met; therefore, no qualification of the data is necessary.

**X. Completeness**

Prescribed field sampling of SDG 3213457 was not completed according to the sampling design. The following were missing according to the COC:

- EB-SOIL-20211113: VOCs and PAHs

Laboratory analysis of SDG 3213457 using methods 8081B; 8082A; 8270D; 6020A; and 8260C, according to the COC, has met QA/QC limits with a completeness score of approximately 100%.

**XI. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XII. Internal Standards**

Internal standard area counts for the samples were within the upper and lower quality control limits. No assessment of the data is necessary based on acceptable internal standard area counts.

**XIII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. Discrepancies were identified in the accuracy and completeness sections above.

**XIV. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

**XV. System Performance**

A review of instrument quality control performance was not provided for the SDG.

**XVI. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

## Sample Delivery Group 3213457 – Data Review

“NJ” and “UJ” flagged data should be considered qualitative. Multiple J flags were also assigned; if associated with NJ;HT flag, data should be considered qualitative.



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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

December 15, 2021

Ms. Rhonda Kay  
VHB - Vermont  
100 State Street  
Suite 600  
Montpelier, VT 05602

## Certificate of Analysis

Dear Ms. Kay:

Enclosed are the analytical results for samples received by the laboratory on Friday, November 19, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ben Deede

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Sarah S Leung  
Project Coordinator

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## SAMPLE SUMMARY

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3213457001	SC-2-19-20	Solid	11/12/2021 08:45	11/19/2021 09:23	Collected by Client
3213457002	SC-2-20-15	Solid	11/12/2021 10:50	11/19/2021 09:23	Collected by Client
3213457003	SC-C7-01-5	Solid	11/12/2021 11:50	11/19/2021 09:23	Collected by Client
3213457004	SC-C7-02-5	Solid	11/12/2021 13:30	11/19/2021 09:23	Collected by Client
3213457005	SC-C7-03-6.6	Solid	11/12/2021 14:30	11/19/2021 09:23	Collected by Client
3213457006	SC-07-101	Solid	11/12/2021 12:00	11/19/2021 09:23	Collected by Client
3213457007	SC-1-01-0.5	Solid	11/15/2021 13:50	11/19/2021 09:23	Collected by Client
3213457008	SC-1-01-17	Solid	11/15/2021 14:00	11/19/2021 09:23	Collected by Client
3213457009	SC-1-02-0.5	Solid	11/15/2021 15:00	11/19/2021 09:23	Collected by Client
3213457010	SC-1-02-4.3	Solid	11/15/2021 15:10	11/19/2021 09:23	Collected by Client
3213457011	SC-1-03-0.5	Solid	11/15/2021 15:50	11/19/2021 09:23	Collected by Client
3213457012	SC-1-03-4	Solid	11/15/2021 15:55	11/19/2021 09:23	Collected by Client
3213457013	SC-1-101	Solid	11/15/2021 12:00	11/19/2021 09:23	Collected by Client
3213457014	IA-CB-01 A	Solid	11/13/2021 10:15	11/19/2021 09:23	Collected by Client
3213457015	IA-CB-01 B	Solid	11/13/2021 10:30	11/19/2021 09:23	Collected by Client
3213457016	IA-CB-01 C	Solid	11/13/2021 10:45	11/19/2021 09:23	Collected by Client
3213457017	IA-CB-02 A	Solid	11/13/2021 11:15	11/19/2021 09:23	Collected by Client
3213457018	IA-CB-02 B	Solid	11/13/2021 11:30	11/19/2021 09:23	Collected by Client
3213457019	IA-CB-02 C	Solid	11/13/2021 11:45	11/19/2021 09:23	Collected by Client
3213457020	IA-Ref-03 A	Solid	11/13/2021 14:15	11/19/2021 09:23	Collected by Client
3213457021	IA-Ref-03 B	Solid	11/13/2021 14:15	11/19/2021 09:23	Collected by Client
3213457022	IA-Ref-03 C	Solid	11/13/2021 14:45	11/19/2021 09:23	Collected by Client
3213457023	IA-Ref-04 A	Solid	11/15/2021 09:30	11/19/2021 09:23	Collected by Client
3213457024	IA-Ref-04 B	Solid	11/15/2021 09:45	11/19/2021 09:23	Collected by Client
3213457025	IA-Ref-04 C	Solid	11/15/2021 10:30	11/19/2021 09:23	Collected by Client
3213457026	EB-SOIL-20211113	Water	11/15/2021 10:30	11/19/2021 09:23	Collected by Client
3213457027	EB-SOIL-20211116	Water	11/16/2021 08:00	11/19/2021 09:23	Collected by Client
3213457028	SC-2-21-15	Solid	11/16/2021 14:25	11/19/2021 09:23	Collected by Client
3213457029	SC-2-22-18	Solid	11/16/2021 15:25	11/19/2021 09:23	Collected by Client
3213457030	TB-20211116	Water	11/16/2021 00:00	11/19/2021 09:23	Collected by Client

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## SAMPLE SUMMARY

Workorder: 3213457 Caneel Bay USVI

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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## PROJECT SUMMARY

Workorder: 3213457 Caneel Bay USVI

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### Workorder Comments

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Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

### Sample Comments

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**Lab ID:** 3213457014      **Sample ID:** IA-CB-01 A      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

**Lab ID:** 3213457015      **Sample ID:** IA-CB-01 B      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

**Lab ID:** 3213457016      **Sample ID:** IA-CB-01 C      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

**Lab ID:** 3213457017      **Sample ID:** IA-CB-02 A      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

**Lab ID:** 3213457018      **Sample ID:** IA-CB-02 B      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

**Lab ID:** 3213457019      **Sample ID:** IA-CB-02 C      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8081.

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457001**  
Sample ID: **SC-2-19-20**

Date Collected: 11/12/2021 08:45 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	8.3J	C,J	ug/kg	12.9	5.9	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Benzene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Bromochloromethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Bromodichloromethane	ND	C	ug/kg	2.6	0.92	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Bromoform	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Bromomethane	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
2-Butanone	ND	C	ug/kg	12.9	4.1	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Carbon Disulfide	ND	C	ug/kg	2.6	0.81	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Carbon Tetrachloride	ND	C	ug/kg	2.6	0.66	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Chlorobenzene	ND	C	ug/kg	2.6	0.66	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Chlorodibromomethane	ND	C	ug/kg	2.6	0.88	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Chloroethane	ND	C	ug/kg	6.4	1.1	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Chloroform	ND	C	ug/kg	2.6	0.68	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Chloromethane	ND	C	ug/kg	2.6	0.71	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Cyclohexane	ND	C	ug/kg	2.6	0.66	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.6	0.32	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,2-Dibromoethane	ND	C	ug/kg	2.6	0.70	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,2-Dichlorobenzene	ND	U:MS	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,4-Dichlorobenzene	ND	U:MS	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Dichlorodifluoromethane	ND	C	ug/kg	2.6	0.86	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,1-Dichloroethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,2-Dichloroethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,1-Dichloroethene	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.6	0.67	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
1,2-Dichloropropane	ND	C	ug/kg	2.6	0.77	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.6	0.71	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.6	0.75	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Ethylbenzene	ND	C	ug/kg	2.6	0.88	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Freon 113	U:MS ND	U: LCS U:LCSD	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
2-Hexanone	ND	C	ug/kg	12.9	3.6	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Isopropylbenzene	ND	C	ug/kg	2.6	0.79	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Methyl acetate	U:MS ND	U: LCS U:LCSD	ug/kg	2.6	0.76	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E
Methyl cyclohexane	ND	U: LCS	ug/kg	2.6	0.72	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03	DPC	E

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### ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457001**  
Sample ID: **SC-2-19-20**

Date Collected: 11/12/2021 08:45 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	12.9	4.9	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.6	1.0	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Styrene	ND	U:MS	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.6	0.72	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.6	0.77	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Toluene	ND	C	ug/kg	2.6	0.86	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Total Xylenes	ND	C	ug/kg	7.7	1.8	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
1,2,3-Trichlorobenzene	ND	U:MS	ug/kg	6.4	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
1,2,4-Trichlorobenzene	ND	U:MS	ug/kg	6.4	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.6	0.80	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.6	0.72	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Trichloroethene	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.6	0.64	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
o-Xylene	ND	C	ug/kg	2.6	0.75	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
mp-Xylene	ND	C	ug/kg	5.2	1.1	SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	81.5	C	%	56 - 124		SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
4-Bromofluorobenzene (S)	82.7	C	%	51 - 128		SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Dibromofluoromethane (S)	79.1	C	%	62 - 123		SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
Toluene-d8 (S)	74.5	C	%	59 - 131		SW846 8260C	11/12/21 08:45 DPC	11/22/21 17:03 DPC	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Acenaphthylene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Benzo(a)anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Benzo(a)pyrene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Benzo(g,h,i)perylene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Benzo(k)fluoranthene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Chrysene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Fluoranthene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A
Fluorene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	
Naphthalene	ND	UJ:HT	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	GEC	A	

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457001**

Date Collected: 11/12/2021 08:45

Matrix: Solid

Sample ID: **SC-2-19-20**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Phenanthrene	UJ;HT	ND	U;MS U;MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	A	
Pyrene	UJ;HT	ND	U;MS U;MSD	ug/kg	63.7	21.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	82.9	NJ;HT	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	A		
Nitrobenzene-d5 (S)	86.4	NJ;HT	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	A		
Terphenyl-d14 (S)	104	NJ;HT	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 09:05 GEC	A		
WET CHEMISTRY											
Moisture	22.0	C	%	0.1	0.01	S2540G-11		11/23/21 08:23 KMS	A		
Total Solids	78.0	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23 KMS	A		
METALS											
Lead, Total	27.2	C	mg/kg	1.2	0.40	SW846 6020A	11/29/21 20:48 JSE	11/30/21 11:51 MO	A1		

Ms. Sarah S Leung  
Project Coordinator

KAK 1/05/2022

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457002**  
Sample ID: **SC-2-20-15**

Date Collected: 11/12/2021 10:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	11.8	5.4	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Benzene	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Bromochloromethane	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Bromodichloromethane	ND	C	ug/kg	2.4	0.84	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Bromoform	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Bromomethane	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
2-Butanone	ND	C	ug/kg	11.8	3.8	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Carbon Disulfide	ND	C	ug/kg	2.4	0.75	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Carbon Tetrachloride	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Chlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Chlorodibromomethane	ND	C	ug/kg	2.4	0.81	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Chloroethane	ND	C	ug/kg	5.9	1.0	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Chloroform	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Chloromethane	ND	C	ug/kg	2.4	0.65	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Cyclohexane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.4	0.30	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,2-Dibromoethane	ND	C	ug/kg	2.4	0.64	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,2-Dichlorobenzene	ND	U;MS	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,3-Dichlorobenzene	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,4-Dichlorobenzene	ND	U;MS	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Dichlorodifluoromethane	ND	C	ug/kg	2.4	0.79	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,1-Dichloroethane	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,2-Dichloroethane	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,1-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.62	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
1,2-Dichloropropane	ND	C	ug/kg	2.4	0.71	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.65	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.69	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Ethylbenzene	ND	C	ug/kg	2.4	0.81	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Freon 113	U;MS	ND	U; LCS U;LCSD	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E
2-Hexanone	ND	C	ug/kg	11.8	3.3	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Isopropylbenzene	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	
Methyl acetate	U;MS	ND	U; LCS U;LCSD	ug/kg	2.4	0.70	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E
Methyl cyclohexane	ND	U; LCS	ug/kg	2.4	0.66	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	E	

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457002**  
Sample ID: **SC-2-20-15**

Date Collected: 11/12/2021 10:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.8	4.5	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.4	0.92	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Styrene	ND	U:MS	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.4	0.71	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Toluene	ND	C	ug/kg	2.4	0.79	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Total Xylenes	ND	C	ug/kg	7.1	1.7	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
1,2,3-Trichlorobenzene	ND	U:MS	ug/kg	5.9	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
1,2,4-Trichlorobenzene	ND	U:MS	ug/kg	5.9	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.4	0.73	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Trichloroethene	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.4	0.59	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
o-Xylene	ND	C	ug/kg	2.4	0.69	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
mp-Xylene	ND	C	ug/kg	4.7	0.98	SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	76.5	C	%	56 - 124		SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
4-Bromofluorobenzene (S)	86.1	C	%	51 - 128		SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Dibromofluoromethane (S)	79.5	C	%	62 - 123		SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
Toluene-d8 (S)	76.4	C	%	59 - 131		SW846 8260C	11/12/21 10:50 DPC	11/22/21 19:10 DPC	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Acenaphthylene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Benzo(a)anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Benzo(a)pyrene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Benzo(g,h,i)perylene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Benzo(k)fluoranthene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Chrysene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Fluoranthene	UJ:HT	ND	U:MS U:MSD	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A
Fluorene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	
Naphthalene	ND	UJ:HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43 GEC	GEC	A	

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457002**

Date Collected: 11/12/2021 10:50

Matrix: Solid

Sample ID: **SC-2-20-15**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	ND	UJ;HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43	GEC	A
Pyrene	ND	UJ;HT	ug/kg	63.5	21.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	82.8	NJ;HT	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43	GEC	A
Nitrobenzene-d5 (S)	89.5	NJ;HT	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43	GEC	A
Terphenyl-d14 (S)	105	NJ;HT	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 10:43	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	22.2	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	77.8	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	2.8	C	mg/kg	1.2	0.40	SW846 6020A	11/29/21 20:48 JSE	11/30/21 11:54	MO	A1

Ms. Sarah S Leung  
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457003**  
Sample ID: **SC-C7-01-5**

Date Collected: 11/12/2021 11:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	5.3J	C,J	ug/kg	11.2	5.2	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Benzene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Bromochloromethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Bromodichloromethane	ND	C	ug/kg	2.2	0.80	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Bromoform	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Bromomethane	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
2-Butanone	ND	C	ug/kg	11.2	3.6	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Carbon Disulfide	ND	C	ug/kg	2.2	0.71	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Carbon Tetrachloride	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Chlorobenzene	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Chlorodibromomethane	ND	C	ug/kg	2.2	0.76	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Chloroethane	ND	C	ug/kg	5.6	0.95	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Chloroform	ND	C	ug/kg	2.2	0.59	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Chloromethane	ND	C	ug/kg	2.2	0.62	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Cyclohexane	ND	C	ug/kg	2.2	0.57	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.2	0.28	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,2-Dibromoethane	ND	C	ug/kg	2.2	0.61	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,2-Dichlorobenzene	ND	U;MS	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,3-Dichlorobenzene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,4-Dichlorobenzene	ND	U;MS	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Dichlorodifluoromethane	ND	C	ug/kg	2.2	0.75	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,1-Dichloroethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,2-Dichloroethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,1-Dichloroethene	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.2	0.58	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
1,2-Dichloropropane	ND	C	ug/kg	2.2	0.67	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.2	0.62	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.2	0.65	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Ethylbenzene	ND	C	ug/kg	2.2	0.76	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Freon 113	U;MS	ND	U; LCS U;LCSD	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E
2-Hexanone	ND	C	ug/kg	11.2	3.1	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Isopropylbenzene	ND	C	ug/kg	2.2	0.68	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	
Methyl acetate	U;MS	ND	U; LCS U;LCSD	ug/kg	2.2	0.66	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E
Methyl cyclohexane	ND	U; LCS	ug/kg	2.2	0.63	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36 DPC	E	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457003**  
Sample ID: **SC-C7-01-5**

Date Collected: 11/12/2021 11:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.2	4.3	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.2	0.88	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Styrene	ND	U:MS	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.2	0.63	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.2	0.67	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Toluene	ND	C	ug/kg	2.2	0.75	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Total Xylenes	ND	C	ug/kg	6.7	1.6	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
1,2,3-Trichlorobenzene	ND	U:MS	ug/kg	5.6	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
1,2,4-Trichlorobenzene	ND	U:MS	ug/kg	5.6	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.2	0.70	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.2	0.63	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Trichloroethene	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.2	0.56	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
o-Xylene	ND	C	ug/kg	2.2	0.65	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
mp-Xylene	ND	C	ug/kg	4.5	0.93	SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78	C	%	56 - 124		SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
4-Bromofluorobenzene (S)	82.4	C	%	51 - 128		SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Dibromofluoromethane (S)	82.1	C	%	62 - 123		SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	
Toluene-d8 (S)	76.8	C	%	59 - 131		SW846 8260C	11/12/21 11:50 DPC	11/22/21 19:36	DPC	E	

### SEMIVOLATILES

Acenaphthene	49.7J	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Acenaphthylene	ND	UJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Anthracene	NJ:HT 114	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Benzo(a)anthracene	NJ:HT 291	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Benzo(a)pyrene	NJ:HT 200	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Benzo(b)fluoranthene	218	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Benzo(g,h,i)perylene	126	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Benzo(k)fluoranthene	NJ:HT 214	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Chrysene	NJ:HT 252	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Dibenzo(a,h)anthracene	34.1J	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Fluoranthene	NJ:HT 651	J:MS J:MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Fluorene	38.1J	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Indeno(1,2,3-cd)pyrene	147	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Naphthalene	ND	UJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457003**

Date Collected: 11/12/2021 11:50

Matrix: Solid

Sample ID: **SC-C7-01-5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	442	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Pyrene	468	NJ:HT	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	80.4	NJ:HT	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Nitrobenzene-d5 (S)	87.3	NJ:HT	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
Terphenyl-d14 (S)	103	NJ:HT	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:08	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	18.3	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	81.7	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	3.8	C	mg/kg	1.2	0.40	SW846 6020A	11/29/21 20:48 JSE	11/30/21 11:58	MO	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457004**

Date Collected: 11/12/2021 13:30

Matrix: Solid

Sample ID: **SC-C7-02-5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	11.5	5.3	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Benzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Bromochloromethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Bromodichloromethane	ND	C	ug/kg	2.3	0.82	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Bromoform	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Bromomethane	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
2-Butanone	ND	C	ug/kg	11.5	3.7	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Carbon Disulfide	ND	C	ug/kg	2.3	0.73	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Carbon Tetrachloride	ND	C,1 6	ug/kg	2.3	0.59	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Chlorobenzene	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Chlorodibromomethane	ND	C	ug/kg	2.3	0.79	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Chloroethane	ND	C	ug/kg	5.8	0.98	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Chloroform	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Chloromethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Cyclohexane	ND	C,1 5	ug/kg	2.3	0.59	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.3	0.29	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,2-Dibromoethane	ND	C	ug/kg	2.3	0.62	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,2-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,3-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,4-Dichlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Dichlorodifluoromethane	ND	C,1 9	ug/kg	2.3	0.77	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,1-Dichloroethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,2-Dichloroethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,1-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
cis-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
trans-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
1,2-Dichloropropane	ND	C	ug/kg	2.3	0.69	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
cis-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
trans-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.67	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Ethylbenzene	ND	C	ug/kg	2.3	0.79	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
2-Hexanone	ND	C	ug/kg	11.5	3.2	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I
Isopropylbenzene	ND	C	ug/kg	2.3	0.70	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457004**  
Sample ID: **SC-C7-02-5**

Date Collected: 11/12/2021 13:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl acetate	ND	C	ug/kg	2.3	0.68	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Methyl cyclohexane	ND	C,1 8	ug/kg	2.3	0.65	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Methyl t-Butyl Ether	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.5	4.4	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Methylene Chloride	ND	C	ug/kg	2.3	0.90	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Styrene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.3	0.65	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Tetrachloroethene	ND	C,1 7	ug/kg	2.3	0.69	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Toluene	ND	C	ug/kg	2.3	0.77	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Total Xylenes	ND	C	ug/kg	6.9	1.6	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.8	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.8	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
1,1,1-Trichloroethane	ND	C	ug/kg	2.3	0.72	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
1,1,2-Trichloroethane	ND	C	ug/kg	2.3	0.65	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Trichloroethene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Trichlorofluoromethane	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Vinyl Chloride	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
o-Xylene	ND	C	ug/kg	2.3	0.67	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
mp-Xylene	ND	C	ug/kg	4.6	0.96	SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	101	C	%	56 - 124		SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
4-Bromofluorobenzene (S)	106	C	%	51 - 128		SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Dibromofluoromethane (S)	104	C	%	62 - 123		SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
Toluene-d8 (S)	105	C	%	59 - 131		SW846 8260C	11/12/21 13:30 TMP	11/23/21 15:44	TMP	I	
SEMIVOLATILES											
Acenaphthene	196	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Acenaphthylene	ND	UJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Anthracene	NJ;HT 441	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Benzo(a)anthracene	NJ;HT 952	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Benzo(a)pyrene	NJ;HT 651	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Benzo(b)fluoranthene	678	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Benzo(g,h,i)perylene	406	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Benzo(k)fluoranthene	NJ;HT 742	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	
Chrysene	NJ;HT 836	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457004**

Date Collected: 11/12/2021 13:30

Matrix: Solid

Sample ID: **SC-C7-02-5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dibenzo(a,h)anthracene	118	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Fluoranthene	2290	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Fluorene	140	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Indeno(1,2,3-cd)pyrene	491	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Naphthalene	73.0	NJ;HT	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Phenanthrene	NJ;HT 1680	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Pyrene	NJ;HT 1640	J;MS J;MSD	ug/kg	65.0	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	82.5	NJ;HT	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Nitrobenzene-d5 (S)	88	NJ;HT	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
Terphenyl-d14 (S)	100	NJ;HT	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:57	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	24.0	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	76.0	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	1.5	C	mg/kg	1.3	0.42	SW846 6020A	11/29/21 20:48 JSE	11/30/21 12:01	MO	A1

Ms. Sarah S Leung  
Project Coordinator

KAK 1/05/2022

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457005**  
Sample ID: **SC-C7-03-6.6**

Date Collected: 11/12/2021 14:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	11.5	5.3	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Benzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Bromochloromethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Bromodichloromethane	ND	C	ug/kg	2.3	0.81	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Bromoform	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Bromomethane	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
2-Butanone	ND	C	ug/kg	11.5	3.7	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Carbon Disulfide	ND	C	ug/kg	2.3	0.72	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Carbon Tetrachloride	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Chlorobenzene	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Chlorodibromomethane	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Chloroethane	ND	C	ug/kg	5.7	0.98	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Chloroform	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Chloromethane	ND	C	ug/kg	2.3	0.63	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Cyclohexane	ND	C	ug/kg	2.3	0.59	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.3	0.29	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,2-Dibromoethane	ND	C	ug/kg	2.3	0.62	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,2-Dichlorobenzene	ND	U:MS	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,3-Dichlorobenzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,4-Dichlorobenzene	ND	U:MS	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Dichlorodifluoromethane	ND	C	ug/kg	2.3	0.77	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,1-Dichloroethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,2-Dichloroethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,1-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
1,2-Dichloropropane	ND	C	ug/kg	2.3	0.69	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.63	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.67	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Ethylbenzene	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Freon 113	U:MS ND	U:MS U:LCS U:LCSD	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
2-Hexanone	ND	C	ug/kg	11.5	3.2	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Isopropylbenzene	ND	C	ug/kg	2.3	0.70	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Methyl acetate	U:MS ND	U:MS U:LCS U:LCSD	ug/kg	2.3	0.68	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	
Methyl cyclohexane	ND	U:MS U:LCS	ug/kg	2.3	0.64	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27 DPC	E	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457005**  
Sample ID: **SC-C7-03-6.6**

Date Collected: 11/12/2021 14:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Methyl t-Butyl Ether	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.5	4.4	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Methylene Chloride	ND	C	ug/kg	2.3	0.90	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Styrene	ND	U:MS	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Tetrachloroethene	ND	C	ug/kg	2.3	0.69	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Toluene	ND	C	ug/kg	2.3	0.77	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Total Xylenes	ND	C	ug/kg	6.9	1.6	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
1,2,3-Trichlorobenzene	ND	U:MS	ug/kg	5.7	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
1,2,4-Trichlorobenzene	ND	U:MS	ug/kg	5.7	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.3	0.71	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Trichloroethene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Trichlorofluoromethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Vinyl Chloride	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
o-Xylene	ND	C	ug/kg	2.3	0.67	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
mp-Xylene	ND	C	ug/kg	4.6	0.95	SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78.1	C	%	56 - 124		SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
4-Bromofluorobenzene (S)	81.5	C	%	51 - 128		SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Dibromofluoromethane (S)	81.5	C	%	62 - 123		SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
Toluene-d8 (S)	78.7	C	%	59 - 131		SW846 8260C	11/12/21 14:30 DPC	11/22/21 20:27	DPC	E	
SEMIVOLATILES											
Acenaphthene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Acenaphthylene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A
Benzo(a)anthracene	UJ:HT	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A
Benzo(a)pyrene	UJ:HT	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Benzo(g,h,i)perylene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Benzo(k)fluoranthene	UJ:HT	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A
Chrysene	UJ:HT	ND	U:MS U:MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Fluoranthene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Fluorene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	
Naphthalene	ND	UJ:HT	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11	GEC	A	

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457005**  
Sample ID: **SC-C7-03-6.6**Date Collected: 11/12/2021 14:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	UJ;HT	ND	U;MS U;MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11 GEC	A
Pyrene	UJ;HT	ND	U;MS U;MSD	ug/kg	60.6	20.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11 GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	73.7	NJ;HT	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11 GEC	A	
Nitrobenzene-d5 (S)	77.5	NJ;HT	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11 GEC	A	
Terphenyl-d14 (S)	94.3	NJ;HT	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:11 GEC	A	
<b>WET CHEMISTRY</b>										
Moisture	18.6	C	%	0.1	0.01	S2540G-11		11/23/21 08:23 KMS	A	
Total Solids	81.4	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23 KMS	A	
<b>METALS</b>										
Lead, Total	1.1J	C,J	mg/kg	1.2	0.38	SW846 6020A	11/30/21 21:13 SXC	12/3/21 04:36 MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457006**  
Sample ID: **SC-07-101**

Date Collected: 11/12/2021 12:00 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10	4.6	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Benzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Bromochloromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Bromodichloromethane	ND	C	ug/kg	2.0	0.71	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Bromoform	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Bromomethane	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
2-Butanone	ND	C	ug/kg	10	3.2	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Carbon Disulfide	ND	C	ug/kg	2.0	0.63	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Carbon Tetrachloride	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Chlorobenzene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Chlorodibromomethane	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Chloroethane	ND	C	ug/kg	5.0	0.85	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Chloroform	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Chloromethane	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Cyclohexane	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.0	0.25	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,2-Dibromoethane	ND	C	ug/kg	2.0	0.54	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,2-Dichlorobenzene	ND	U;MS	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,3-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,4-Dichlorobenzene	ND	U;MS	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Dichlorodifluoromethane	ND	C	ug/kg	2.0	0.67	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,1-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,2-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,1-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
1,2-Dichloropropane	ND	C	ug/kg	2.0	0.60	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.58	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Ethylbenzene	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Freon 113	U;MS	ND	U; LCS U;LCSD	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E
2-Hexanone	ND	C	ug/kg	10	2.8	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Isopropylbenzene	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	
Methyl acetate	U;MS	ND	U; LCS U;LCSD	ug/kg	2.0	0.59	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E
Methyl cyclohexane	ND	U; LCS	ug/kg	2.0	0.56	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01 DPC	E	

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### ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457006**

Date Collected: 11/12/2021 12:00

Matrix: Solid

Sample ID: **SC-07-101**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10	3.8	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Methylene Chloride	ND	C	ug/kg	2.0	0.78	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Styrene	ND	U;MS	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Tetrachloroethene	ND	C	ug/kg	2.0	0.60	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Toluene	ND	C	ug/kg	2.0	0.67	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Total Xylenes	ND	C	ug/kg	6.0	1.4	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
1,2,3-Trichlorobenzene	ND	U;MS	ug/kg	5.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
1,2,4-Trichlorobenzene	ND	U;MS	ug/kg	5.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.0	0.62	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
1,1,2-Trichloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Trichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Trichlorofluoromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Vinyl Chloride	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
o-Xylene	ND	C	ug/kg	2.0	0.58	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
mp-Xylene	ND	C	ug/kg	4.0	0.83	SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.7	C	%	56 - 124		SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
4-Bromofluorobenzene (S)	82.3	C	%	51 - 128		SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Dibromofluoromethane (S)	81.4	C	%	62 - 123		SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
Toluene-d8 (S)	74.6	C	%	59 - 131		SW846 8260C	11/12/21 12:00 DPC	11/22/21 20:01	DPC	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Acenaphthylene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Anthracene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Benzo(a)anthracene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Benzo(a)pyrene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Benzo(b)fluoranthene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Benzo(g,h,i)perylene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Benzo(k)fluoranthene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Chrysene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Dibenzo(a,h)anthracene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Fluoranthene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC A
Fluorene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Indeno(1,2,3-cd)pyrene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A
Naphthalene	ND	UJ;HT	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 11:33	GEC	A

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457006**

Date Collected: 11/12/2021 12:00

Matrix: Solid

Sample ID: **SC-07-101**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr		
Phenanthrene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10	JLH	11/29/21 11:33	GEC	A
Pyrene	UJ;HT	ND	U;MS U;MSD	ug/kg	57.1	19.4	SW846 8270D	11/24/21 17:10	JLH	11/29/21 11:33	GEC	A
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr	
2-Fluorobiphenyl (S)	78	NJ;HT	%	40 - 110		SW846 8270D	11/24/21 17:10	JLH	11/29/21 11:33	GEC	A	
Nitrobenzene-d5 (S)	84.7	NJ;HT	%	38 - 112		SW846 8270D	11/24/21 17:10	JLH	11/29/21 11:33	GEC	A	
Terphenyl-d14 (S)	99	NJ;HT	%	45 - 126		SW846 8270D	11/24/21 17:10	JLH	11/29/21 11:33	GEC	A	
WET CHEMISTRY												
Moisture	15.3	C	%	0.1	0.01	S2540G-11			11/23/21 08:23	KMS	A	
Total Solids	84.7	C,1	%	0.1	0.01	S2540G-11			11/23/21 08:23	KMS	A	
METALS												
Lead, Total	1.2	C	mg/kg	1.2	0.39	SW846 6020A	11/30/21 21:13	SXC	12/3/21 04:40	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457007**  
Sample ID: **SC-1-01-0.5**

Date Collected: 11/15/2021 13:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND		ug/kg	14.1	6.5	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Benzene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Bromochloromethane	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Bromodichloromethane	ND	U;MS U;MSD	ug/kg	2.8	1.0	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Bromoform	ND	U;MS U;MSD	ug/kg	2.8	0.73	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Bromomethane	ND	U;MS	ug/kg	2.8	0.73	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
2-Butanone	ND		ug/kg	14.1	4.5	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Carbon Disulfide	ND		ug/kg	2.8	0.89	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Carbon Tetrachloride	ND	U;MS U;MSD	ug/kg	2.8	0.72	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Chlorobenzene	ND	U;MS U;MSD	ug/kg	2.8	0.72	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Chlorodibromomethane	ND	U;MS U;MSD	ug/kg	2.8	0.96	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Chloroethane	ND		ug/kg	7.0	1.2	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Chloroform	ND	U;MS U;MSD	ug/kg	2.8	0.75	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Chloromethane	ND	U;MS U;MSD	ug/kg	2.8	0.78	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Cyclohexane	ND	U;MS U;MSD	ug/kg	2.8	0.72	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,2-Dibromo-3-chloropropane	ND	U;MS U;MSD	ug/kg	2.8	0.35	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,2-Dibromoethane	ND	U;MS U;MSD	ug/kg	2.8	0.76	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,2-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,3-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,4-Dichlorobenzene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
Dichlorodifluoromethane	ND	U;MS U;MSD	ug/kg	2.8	0.94	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,1-Dichloroethane	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	
1,2-Dichloroethane	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29 TMP	I	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457007**  
Sample ID: **SC-1-01-0.5**

Date Collected: 11/15/2021 13:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	ND		ug/kg	2.8	0.73	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
cis-1,2-Dichloroethene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
trans-1,2-Dichloroethene	ND	U;MS U;MSD	ug/kg	2.8	0.73	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,2-Dichloropropane	ND	U;MS U;MSD	ug/kg	2.8	0.85	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
cis-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.8	0.78	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
trans-1,3-Dichloropropene	ND	U;MS U;MSD	ug/kg	2.8	0.82	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Ethylbenzene	ND	U;MS U;MSD	ug/kg	2.8	0.96	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Freon 113	ND	U;LCS	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
2-Hexanone	ND	U;MS	ug/kg	14.1	3.9	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Isopropylbenzene	ND	U;MS U;MSD	ug/kg	2.8	0.86	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Methyl acetate	ND		ug/kg	2.8	0.83	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Methyl cyclohexane	ND	U;MS U;MSD	ug/kg	2.8	0.79	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Methyl t-Butyl Ether	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
4-Methyl-2-Pentanone(MIBK)	ND	U;MS U;MSD	ug/kg	14.1	5.4	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Methylene Chloride	ND	U;MS U;MSD	ug/kg	2.8	1.1	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Styrene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,1,2,2-Tetrachloroethane	ND	U;MS U;MSD	ug/kg	2.8	0.79	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Tetrachloroethene	ND	U;MS U;MSD	ug/kg	2.8	0.85	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Toluene	ND	U;MS U;MSD	ug/kg	2.8	0.94	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Total Xylenes	ND	U;MS U;MSD	ug/kg	8.5	2.0	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,2,3-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	7.0	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,2,4-Trichlorobenzene	ND	U;MS U;MSD	ug/kg	7.0	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,1,1-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.8	0.87	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
1,1,2-Trichloroethane	ND	U;MS U;MSD	ug/kg	2.8	0.79	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457007**  
Sample ID: **SC-1-01-0.5**

Date Collected: 11/15/2021 13:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Trichloroethene	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Trichlorofluoromethane	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Vinyl Chloride	ND	U;MS U;MSD	ug/kg	2.8	0.70	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
o-Xylene	ND	U;MS U;MSD	ug/kg	2.8	0.82	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
mp-Xylene	ND	U;MS U;MSD	ug/kg	5.6	1.2	SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103	NJ;HT	%	56 - 124		SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
4-Bromofluorobenzene (S)	106	NJ;HT	%	51 - 128		SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Dibromofluoromethane (S)	108	NJ;HT	%	62 - 123		SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
Toluene-d8 (S)	108	NJ;HT	%	59 - 131		SW846 8260C	11/15/21 13:50 TMP	11/24/21 13:29	TMP	I
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Acenaphthylene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Fluorene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Naphthalene	ND	C	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Pyrene	ND	U;MS U;MSD	ug/kg	60.0	20.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	66.6	C	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Nitrobenzene-d5 (S)	72.5	C	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A
Terphenyl-d14 (S)	82.4	C	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 14:00	GEC	A

**PCBs**

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457007**

Date Collected: 11/15/2021 13:50

Matrix: Solid

Sample ID: **SC-1-01-0.5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Toxaphene	ND	C	ug/kg	42.3	21.4	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:10	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	52.6	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:10	KJH	B
Decachlorobiphenyl. (S)	57.7	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:10	KJH	B
Tetrachloro-m-xylene (S)	64	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:10	KJH	B
Tetrachloro-m-xylene. (S)	58.4	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:10	KJH	B
<b>WET CHEMISTRY</b>										
Moisture	19.9	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	80.1	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	25.3	C	mg/kg	1.2	0.40	SW846 6020A	11/30/21 21:13 SXC	12/3/21 04:43	MSA	A1

Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457008**

Date Collected: 11/15/2021 14:00

Matrix: Solid

Sample ID: **SC-1-01-17**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10.7	4.9	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Benzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Bromochloromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Bromodichloromethane	ND	C	ug/kg	2.1	0.76	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Bromoform	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Bromomethane	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
2-Butanone	ND	C	ug/kg	10.7	3.4	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Carbon Disulfide	ND	C	ug/kg	2.1	0.67	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Carbon Tetrachloride	ND	C,8	ug/kg	2.1	0.54	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Chlorobenzene	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Chlorodibromomethane	ND	C	ug/kg	2.1	0.73	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Chloroethane	ND	C	ug/kg	5.3	0.91	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Chloroform	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Chloromethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Cyclohexane	ND	C,7	ug/kg	2.1	0.54	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.1	0.27	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Dichlorodifluoromethane	ND	C,3	ug/kg	2.1	0.71	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	2.1	0.64	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Ethylbenzene	ND	C	ug/kg	2.1	0.73	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
2-Hexanone	ND	C	ug/kg	10.7	3.0	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Isopropylbenzene	ND	C	ug/kg	2.1	0.65	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Methyl acetate	ND	C	ug/kg	2.1	0.63	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Methyl cyclohexane	ND	C,2	ug/kg	2.1	0.60	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457008**  
Sample ID: **SC-1-01-17**

Date Collected: 11/15/2021 14:00 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10.7	4.1	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Methylene Chloride	ND	C	ug/kg	2.1	0.83	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Styrene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Tetrachloroethene	ND	C,9	ug/kg	2.1	0.64	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Toluene	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Total Xylenes	ND	C	ug/kg	6.4	1.5	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.3	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.3	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.1	0.66	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
1,1,2-Trichloroethane	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Trichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Trichlorofluoromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Vinyl Chloride	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
o-Xylene	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
mp-Xylene	ND	C	ug/kg	4.3	0.89	SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101	C	%	56 - 124		SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
4-Bromofluorobenzene (S)	101	C	%	51 - 128		SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Dibromofluoromethane (S)	106	C	%	62 - 123		SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
Toluene-d8 (S)	104	C	%	59 - 131		SW846 8260C	11/15/21 14:00 TMP	11/23/21 16:35	TMP	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Acenaphthylene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Fluorene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Naphthalene	ND	C	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:14	GEC	A

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### ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457008**

Date Collected: 11/15/2021 14:00

Matrix: Solid

Sample ID: **SC-1-01-17**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	54.8	18.6	SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:14	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	78.4	C	%	40 - 110		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:14	GEC	A
Nitrobenzene-d5 (S)	84.4	C	%	38 - 112		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:14	GEC	A
Terphenyl-d14 (S)	96	C	%	45 - 126		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:14	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.036	0.019	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1016	ND	C	mg/kg	0.036	0.0044	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1221	ND	C	mg/kg	0.036	0.019	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1232	ND	C	mg/kg	0.036	0.0077	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1242	ND	C	mg/kg	0.036	0.0077	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1248	ND	C	mg/kg	0.036	0.0066	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1254	ND	C	mg/kg	0.036	0.0044	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Aroclor-1260	ND	C	mg/kg	0.036	0.0044	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	77.3	C	%	49 - 115		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
Tetrachloro-m-xylene (S)	86.8	C	%	27 - 137		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:19	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	1.9	0.46	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
beta-BHC	ND	C	ug/kg	1.9	0.54	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
delta-BHC	ND	C	ug/kg	1.9	0.61	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
gamma-BHC	ND	C	ug/kg	1.9	0.60	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
alpha-Chlordane	ND	C	ug/kg	1.9	0.57	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
gamma-Chlordane	ND	C	ug/kg	1.9	0.54	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
4,4'-DDD	ND	C	ug/kg	1.9	1.2	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
4,4'-DDE	ND	U;MS U;MSD	ug/kg	1.9	0.60	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
4,4'-DDT	ND	U;MS U;MSD	ug/kg	1.9	0.54	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Dieldrin	ND	U;MSD	ug/kg	1.9	0.72	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endosulfan I	ND	C	ug/kg	1.9	0.50	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endosulfan II	ND	C	ug/kg	1.9	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	1.9	0.52	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endrin	ND	C	ug/kg	1.9	0.92	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endrin Aldehyde	ND	C	ug/kg	1.9	0.90	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Endrin Ketone	ND	C	ug/kg	1.9	0.91	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	1.9	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Heptachlor	ND	C	ug/kg	1.9	0.90	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457008**

Date Collected: 11/15/2021 14:00

Matrix: Solid

Sample ID: **SC-1-01-17**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Heptachlor Epoxide	ND	C	ug/kg	1.9	0.52	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Methoxychlor	ND	C	ug/kg	3.6	2.6	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Toxaphene	ND	C	ug/kg	38.4	19.4	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	63.3	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Decachlorobiphenyl. (S)	65.4	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Tetrachloro-m-xylene (S)	73.3	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
Tetrachloro-m-xylene. (S)	64.9	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:41	KJH	A
<b>WET CHEMISTRY</b>										
Moisture	9.4	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	90.6	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	0.90J	C,J	mg/kg	0.97	0.32	SW846 6020A	11/30/21 21:13 SXC	12/3/21 04:57	MSA	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457009**

Date Collected: 11/15/2021 15:00

Matrix: Solid

Sample ID: **SC-1-02-0.5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	12.0	5.5	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Benzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Bromochloromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Bromodichloromethane	ND	C	ug/kg	2.4	0.86	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Bromoform	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Bromomethane	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
2-Butanone	ND	C	ug/kg	12.0	3.9	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Carbon Disulfide	ND	C	ug/kg	2.4	0.76	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Carbon Tetrachloride	ND	C,3	ug/kg	2.4	0.61	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Chlorobenzene	ND	C	ug/kg	2.4	0.61	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Chlorodibromomethane	ND	C	ug/kg	2.4	0.82	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Chloroethane	ND	C	ug/kg	6.0	1.0	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Chloroform	ND	C	ug/kg	2.4	0.64	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Chloromethane	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Cyclohexane	ND	C,2	ug/kg	2.4	0.61	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.4	0.30	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	2.4	0.65	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Dichlorodifluoromethane	ND	C,6	ug/kg	2.4	0.81	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.4	0.63	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	2.4	0.72	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.66	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.4	0.70	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Ethylbenzene	ND	C	ug/kg	2.4	0.82	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
2-Hexanone	ND	C	ug/kg	12.0	3.4	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Isopropylbenzene	ND	C	ug/kg	2.4	0.73	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Methyl acetate	ND	C	ug/kg	2.4	0.71	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Methyl cyclohexane	ND	C,5	ug/kg	2.4	0.67	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457009**  
Sample ID: **SC-1-02-0.5**

Date Collected: 11/15/2021 15:00 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	12.0	4.6	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Methylene Chloride	ND	C	ug/kg	2.4	0.94	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Styrene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.4	0.67	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Tetrachloroethene	ND	C,4	ug/kg	2.4	0.72	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Toluene	ND	C	ug/kg	2.4	0.81	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Total Xylenes	ND	C	ug/kg	7.2	1.7	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2,3-Trichlorobenzene	ND	C	ug/kg	6.0	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,2,4-Trichlorobenzene	ND	C	ug/kg	6.0	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.4	0.75	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
1,1,2-Trichloroethane	ND	C	ug/kg	2.4	0.67	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Trichloroethene	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Trichlorofluoromethane	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Vinyl Chloride	ND	C	ug/kg	2.4	0.60	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
o-Xylene	ND	C	ug/kg	2.4	0.70	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
mp-Xylene	ND	C	ug/kg	4.8	1.0	SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104	C	%	56 - 124		SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
4-Bromofluorobenzene (S)	108	C	%	51 - 128		SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Dibromofluoromethane (S)	106	C	%	62 - 123		SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
Toluene-d8 (S)	105	C	%	59 - 131		SW846 8260C	11/15/21 15:00 TMP	11/23/21 17:01	TMP	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Acenaphthylene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Fluorene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Naphthalene	ND	C	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 JLH	11/29/21 15:39	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457009**

Date Collected: 11/15/2021 15:00

Matrix: Solid

Sample ID: **SC-1-02-0.5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	61.9	21.0	SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:39	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	70.1	C	%	40 - 110		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:39	GEC	A
Nitrobenzene-d5 (S)	70.6	C	%	38 - 112		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:39	GEC	A
Terphenyl-d14 (S)	96	C	%	45 - 126		SW846 8270D	11/24/21 17:10 J1H	11/29/21 15:39	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.040	0.021	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1016	ND	C	mg/kg	0.040	0.0049	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1221	ND	C	mg/kg	0.040	0.021	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1232	ND	C	mg/kg	0.040	0.0086	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1242	ND	C	mg/kg	0.040	0.0086	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1248	ND	C	mg/kg	0.040	0.0073	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1254	ND	C	mg/kg	0.040	0.0049	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Aroclor-1260	ND	C	mg/kg	0.040	0.0049	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	74.3	C	%	49 - 115		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
Tetrachloro-m-xylene (S)	82.3	C	%	27 - 137		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:30	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	2.1	0.51	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
beta-BHC	ND	C	ug/kg	2.1	0.60	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
delta-BHC	ND	C	ug/kg	2.1	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
gamma-BHC	ND	C	ug/kg	2.1	0.67	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
alpha-Chlordane	ND	C	ug/kg	2.1	0.64	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
gamma-Chlordane	ND	C	ug/kg	2.1	0.60	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
4,4'-DDD	ND	C	ug/kg	2.1	1.3	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
4,4'-DDE	ND	U;MS U;MSD	ug/kg	2.1	0.67	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
4,4'-DDT	ND	U;MS U;MSD	ug/kg	2.1	0.60	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Dieldrin	ND	U;MSD	ug/kg	2.1	0.81	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endosulfan I	ND	C	ug/kg	2.1	0.56	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endosulfan II	ND	C	ug/kg	2.1	0.76	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	2.1	0.57	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endrin	ND	C	ug/kg	2.1	1.0	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endrin Aldehyde	ND	C	ug/kg	2.1	1.0	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Endrin Ketone	ND	C	ug/kg	2.1	1.0	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	2.1	0.76	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A
Heptachlor	ND	C	ug/kg	2.1	1.0	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457009**

Date Collected: 11/15/2021 15:00

Matrix: Solid

Sample ID: **SC-1-02-0.5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Heptachlor Epoxide	ND	C	ug/kg	2.1	0.57	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Methoxychlor	ND	C	ug/kg	4.0	2.9	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Toxaphene	ND	C	ug/kg	42.8	21.6	SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	57.9	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Decachlorobiphenyl. (S)	63.8	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Tetrachloro-m-xylene (S)	66.1	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
Tetrachloro-m-xylene. (S)	62.6	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 19:52	KJH	A	
WET CHEMISTRY											
Moisture	19.2	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
Total Solids	80.8	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
METALS											
Lead, Total	4.3	C	mg/kg	1.1	0.36	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:00	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457010**

Date Collected: 11/15/2021 15:10

Matrix: Solid

Sample ID: **SC-1-02-4.3**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10.5	4.8	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Benzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Bromochloromethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Bromodichloromethane	ND	C	ug/kg	2.1	0.74	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Bromoform	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Bromomethane	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
2-Butanone	ND	C	ug/kg	10.5	3.4	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Carbon Disulfide	ND	C	ug/kg	2.1	0.66	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Carbon Tetrachloride	ND	C,3	ug/kg	2.1	0.53	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Chlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Chlorodibromomethane	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Chloroethane	ND	C	ug/kg	5.2	0.89	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Chloroform	ND	C	ug/kg	2.1	0.56	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Chloromethane	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Cyclohexane	ND	C,2	ug/kg	2.1	0.53	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.1	0.26	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,2-Dibromoethane	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,2-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,3-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,4-Dichlorobenzene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Dichlorodifluoromethane	ND	C,6	ug/kg	2.1	0.70	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,1-Dichloroethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,2-Dichloroethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,1-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
1,2-Dichloropropane	ND	C	ug/kg	2.1	0.63	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.58	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.61	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Ethylbenzene	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
2-Hexanone	ND	C	ug/kg	10.5	2.9	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Isopropylbenzene	ND	C	ug/kg	2.1	0.64	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Methyl acetate	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Methyl cyclohexane	ND	C,5	ug/kg	2.1	0.59	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	
Methyl t-Butyl Ether	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26 TMP	E	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457010**  
Sample ID: **SC-1-02-4.3**

Date Collected: 11/15/2021 15:10 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10.5	4.0	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Methylene Chloride	ND	C	ug/kg	2.1	0.82	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Styrene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Tetrachloroethene	ND	C,4	ug/kg	2.1	0.63	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Toluene	ND	C	ug/kg	2.1	0.70	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Total Xylenes	ND	C	ug/kg	6.3	1.5	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.2	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.2	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.1	0.65	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Trichloroethene	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Trichlorofluoromethane	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Vinyl Chloride	ND	C	ug/kg	2.1	0.52	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
o-Xylene	ND	C	ug/kg	2.1	0.61	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
mp-Xylene	ND	C	ug/kg	4.2	0.87	SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	100	C	%	56 - 124		SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
4-Bromofluorobenzene (S)	105	C	%	51 - 128		SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Dibromofluoromethane (S)	105	C	%	62 - 123		SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
Toluene-d8 (S)	107	C	%	59 - 131		SW846 8260C	11/15/21 15:10 TMP	11/23/21 17:26	TMP	E	
SEMIVOLATILES											
Acenaphthene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Acenaphthylene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Anthracene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Chrysene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Fluoranthene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Fluorene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Naphthalene	ND	C	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	
Phenanthrene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457010**  
Sample ID: **SC-1-02-4.3**

Date Collected: 11/15/2021 15:10 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	60.8	20.7	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	80	C	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A
Nitrobenzene-d5 (S)	85.7	C	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A
Terphenyl-d14 (S)	103	C	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:03	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.039	0.020	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1016	ND	C	mg/kg	0.039	0.0047	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1221	ND	C	mg/kg	0.039	0.020	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1232	ND	C	mg/kg	0.039	0.0082	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1242	ND	C	mg/kg	0.039	0.0082	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1248	ND	C	mg/kg	0.039	0.0071	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1254	ND	C	mg/kg	0.039	0.0047	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Aroclor-1260	ND	C	mg/kg	0.039	0.0047	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	72.3	C	%	49 - 115		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
Tetrachloro-m-xylene (S)	79.2	C	%	27 - 137		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:42	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	2.0	0.49	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
beta-BHC	ND	C	ug/kg	2.0	0.58	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
delta-BHC	ND	C	ug/kg	2.0	0.66	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
gamma-BHC	ND	C	ug/kg	2.0	0.65	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
alpha-Chlordane	ND	C	ug/kg	2.0	0.61	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
gamma-Chlordane	ND	C	ug/kg	2.0	0.58	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
4,4'-DDD	ND	C	ug/kg	2.0	1.3	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
4,4'-DDE	ND	U;MS U;MSD	ug/kg	2.0	0.65	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
4,4'-DDT	ND	U;MS U;MSD	ug/kg	2.0	0.58	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Dieldrin	ND	U;MSD	ug/kg	2.0	0.78	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endosulfan I	ND	C	ug/kg	2.0	0.54	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endosulfan II	ND	C	ug/kg	2.0	0.73	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	2.0	0.55	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endrin	ND	C	ug/kg	2.0	0.99	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endrin Aldehyde	ND	C	ug/kg	2.0	0.97	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Endrin Ketone	ND	C	ug/kg	2.0	0.98	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	2.0	0.73	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A
Heptachlor	ND	C	ug/kg	2.0	0.97	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457010**

Date Collected: 11/15/2021 15:10

Matrix: Solid

Sample ID: **SC-1-02-4.3**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Heptachlor Epoxide	ND	C	ug/kg	2.0	0.55	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Methoxychlor	ND	C	ug/kg	3.9	2.8	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Toxaphene	ND	C	ug/kg	41.2	20.8	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	60	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Decachlorobiphenyl. (S)	64.7	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Tetrachloro-m-xylene (S)	65.6	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
Tetrachloro-m-xylene. (S)	61.1	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:02	KJH	A	
WET CHEMISTRY											
Moisture	17.8	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
Total Solids	82.2	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
METALS											
Lead, Total	1.2	C	mg/kg	1.1	0.37	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:30	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457011**  
Sample ID: **SC-1-03-0.5**

Date Collected: 11/15/2021 15:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	6.5J	C,J	ug/kg	11.4	5.3	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Benzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Bromochloromethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Bromodichloromethane	ND	C	ug/kg	2.3	0.81	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Bromoform	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Bromomethane	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
2-Butanone	ND	C	ug/kg	11.4	3.7	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Carbon Disulfide	ND	C	ug/kg	2.3	0.72	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Carbon Tetrachloride	ND	C,3	ug/kg	2.3	0.58	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Chlorobenzene	ND	C	ug/kg	2.3	0.58	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Chlorodibromomethane	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Chloroethane	ND	C	ug/kg	5.7	0.97	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Chloroform	ND	C	ug/kg	2.3	0.61	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Chloromethane	ND	C	ug/kg	2.3	0.63	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Cyclohexane	ND	C,2	ug/kg	2.3	0.58	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.3	0.29	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	2.3	0.62	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Dichlorodifluoromethane	ND	C,6	ug/kg	2.3	0.77	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.3	0.60	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	2.3	0.69	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.63	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.3	0.66	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Ethylbenzene	ND	C	ug/kg	2.3	0.78	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
2-Hexanone	ND	C	ug/kg	11.4	3.2	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Isopropylbenzene	ND	C	ug/kg	2.3	0.70	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Methyl acetate	ND	C	ug/kg	2.3	0.68	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Methyl cyclohexane	ND	C,5	ug/kg	2.3	0.64	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457011**  
Sample ID: **SC-1-03-0.5**

Date Collected: 11/15/2021 15:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	11.4	4.4	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Methylene Chloride	ND	C	ug/kg	2.3	0.89	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Styrene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Tetrachloroethene	ND	C,4	ug/kg	2.3	0.69	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Toluene	ND	C	ug/kg	2.3	0.77	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Total Xylenes	ND	C	ug/kg	6.9	1.6	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.7	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.7	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.3	0.71	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.3	0.64	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Trichloroethene	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Trichlorofluoromethane	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Vinyl Chloride	ND	C	ug/kg	2.3	0.57	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
o-Xylene	ND	C	ug/kg	2.3	0.66	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
mp-Xylene	ND	C	ug/kg	4.6	0.95	SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	98.5	C	%	56 - 124		SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
4-Bromofluorobenzene (S)	105	C	%	51 - 128		SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Dibromofluoromethane (S)	105	C	%	62 - 123		SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	
Toluene-d8 (S)	106	C	%	59 - 131		SW846 8260C	11/15/21 15:50 TMP	11/23/21 17:51	TMP	E	

### SEMIVOLATILES

Acenaphthene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Acenaphthylene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Fluorene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Naphthalene	ND	C	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:28	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457011**  
Sample ID: **SC-1-03-0.5**

Date Collected: 11/15/2021 15:50 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	70.2	23.9	SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:28	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	69.9	C	%	40 - 110		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:28	GEC	A
Nitrobenzene-d5 (S)	73.9	C	%	38 - 112		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:28	GEC	A
Terphenyl-d14 (S)	88	C	%	45 - 126		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:28	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.046	0.024	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1016	ND	C	mg/kg	0.046	0.0056	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1221	ND	C	mg/kg	0.046	0.024	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1232	ND	C	mg/kg	0.046	0.0098	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1242	ND	C	mg/kg	0.046	0.0098	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1248	ND	C	mg/kg	0.046	0.0084	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1254	ND	C	mg/kg	0.046	0.0056	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Aroclor-1260	ND	C	mg/kg	0.046	0.0056	SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	75.1	C	%	49 - 115		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
Tetrachloro-m-xylene (S)	83.1	C	%	27 - 137		SW846 8082A	11/24/21 16:20 J1H	11/29/21 06:53	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	2.4	0.59	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
beta-BHC	ND	C	ug/kg	2.4	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
delta-BHC	ND	C	ug/kg	2.4	0.78	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
gamma-BHC	ND	C	ug/kg	2.4	0.77	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
alpha-Chlordane	ND	C	ug/kg	2.4	0.73	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
gamma-Chlordane	ND	C	ug/kg	2.4	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
4,4'-DDD	ND	C	ug/kg	2.4	1.5	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
4,4'-DDE	ND	U;MS U;MSD	ug/kg	2.4	0.77	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
4,4'-DDT	ND	U;MS U;MSD	ug/kg	2.4	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Dieldrin	ND	U;MSD	ug/kg	2.4	0.92	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endosulfan I	ND	C	ug/kg	2.4	0.64	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endosulfan II	ND	C	ug/kg	2.4	0.86	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	2.4	0.66	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endrin	ND	C	ug/kg	2.4	1.2	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endrin Aldehyde	ND	C	ug/kg	2.4	1.1	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Endrin Ketone	ND	C	ug/kg	2.4	1.2	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	2.4	0.86	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A
Heptachlor	ND	C	ug/kg	2.4	1.1	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457011**

Date Collected: 11/15/2021 15:50

Matrix: Solid

Sample ID: **SC-1-03-0.5**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Heptachlor Epoxide	ND	C	ug/kg	2.4	0.66	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Methoxychlor	ND	C	ug/kg	4.6	3.3	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Toxaphene	ND	C	ug/kg	48.8	24.7	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	59.4	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Decachlorobiphenyl. (S)	64.4	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Tetrachloro-m-xylene (S)	67	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
Tetrachloro-m-xylene. (S)	62.9	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:13	KJH	A	
WET CHEMISTRY											
Moisture	29.2	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
Total Solids	70.8	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
METALS											
Lead, Total	2.4	C	mg/kg	1.3	0.44	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:33	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457012**

Date Collected: 11/15/2021 15:55

Matrix: Solid

Sample ID: **SC-1-03-4**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	8.2	3.8	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Benzene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Bromochloromethane	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Bromodichloromethane	ND	C	ug/kg	1.6	0.58	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Bromoform	ND	C	ug/kg	1.6	0.43	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Bromomethane	ND	C	ug/kg	1.6	0.43	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
2-Butanone	ND	C	ug/kg	8.2	2.6	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Carbon Disulfide	ND	C	ug/kg	1.6	0.52	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Carbon Tetrachloride	ND	C,3	ug/kg	1.6	0.42	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Chlorobenzene	ND	C	ug/kg	1.6	0.42	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Chlorodibromomethane	ND	C	ug/kg	1.6	0.56	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Chloroethane	ND	C	ug/kg	4.1	0.70	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Chloroform	ND	C	ug/kg	1.6	0.44	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Chloromethane	ND	C	ug/kg	1.6	0.45	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Cyclohexane	ND	C,2	ug/kg	1.6	0.42	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	1.6	0.21	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,2-Dibromoethane	ND	C	ug/kg	1.6	0.44	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,2-Dichlorobenzene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,3-Dichlorobenzene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,4-Dichlorobenzene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Dichlorodifluoromethane	ND	C,6	ug/kg	1.6	0.55	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,1-Dichloroethane	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,2-Dichloroethane	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,1-Dichloroethene	ND	C	ug/kg	1.6	0.43	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
cis-1,2-Dichloroethene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
trans-1,2-Dichloroethene	ND	C	ug/kg	1.6	0.43	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
1,2-Dichloropropane	ND	C	ug/kg	1.6	0.49	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
cis-1,3-Dichloropropene	ND	C	ug/kg	1.6	0.45	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
trans-1,3-Dichloropropene	ND	C	ug/kg	1.6	0.48	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Ethylbenzene	ND	C	ug/kg	1.6	0.56	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Freon 113	ND	U; LCS U;LCSD	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
2-Hexanone	ND	C	ug/kg	8.2	2.3	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Isopropylbenzene	ND	C	ug/kg	1.6	0.50	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Methyl acetate	ND	C	ug/kg	1.6	0.49	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Methyl cyclohexane	ND	C,5	ug/kg	1.6	0.46	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	
Methyl t-Butyl Ether	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17 TMP	E	

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457012**  
Sample ID: **SC-1-03-4**

Date Collected: 11/15/2021 15:55 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	8.2	3.1	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Methylene Chloride	ND	C	ug/kg	1.6	0.64	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Styrene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	1.6	0.46	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Tetrachloroethene	ND	C,4	ug/kg	1.6	0.49	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Toluene	ND	C	ug/kg	1.6	0.55	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Total Xylenes	ND	C	ug/kg	4.9	1.2	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
1,2,3-Trichlorobenzene	ND	C	ug/kg	4.1	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
1,2,4-Trichlorobenzene	ND	C	ug/kg	4.1	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
1,1,1-Trichloroethane	ND	C	ug/kg	1.6	0.51	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
1,1,2-Trichloroethane	ND	C	ug/kg	1.6	0.46	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Trichloroethene	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Trichlorofluoromethane	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Vinyl Chloride	ND	C	ug/kg	1.6	0.41	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
o-Xylene	ND	C	ug/kg	1.6	0.48	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
mp-Xylene	ND	C	ug/kg	3.3	0.68	SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102	C	%	56 - 124		SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
4-Bromofluorobenzene (S)	107	C	%	51 - 128		SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Dibromofluoromethane (S)	105	C	%	62 - 123		SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
Toluene-d8 (S)	106	C	%	59 - 131		SW846 8260C	11/15/21 15:55 TMP	11/23/21 18:17	TMP	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Acenaphthylene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Fluorene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Naphthalene	ND	C	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 JLH	11/29/21 16:52	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457012**  
Sample ID: **SC-1-03-4**

Date Collected: 11/15/2021 15:55 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	51.6	17.5	SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:52	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	75.2	C	%	40 - 110		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:52	GEC	A
Nitrobenzene-d5 (S)	77.8	C	%	38 - 112		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:52	GEC	A
Terphenyl-d14 (S)	102	C	%	45 - 126		SW846 8270D	11/24/21 17:10 J1H	11/29/21 16:52	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.034	0.017	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1016	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1221	ND	C	mg/kg	0.034	0.017	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1232	ND	C	mg/kg	0.034	0.0072	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1242	ND	C	mg/kg	0.034	0.0072	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1248	ND	C	mg/kg	0.034	0.0061	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1254	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Aroclor-1260	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	83.5	C	%	49 - 115		SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
Tetrachloro-m-xylene (S)	87.4	C	%	27 - 137		SW846 8082A	11/24/21 16:20 J1H	11/29/21 07:05	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	1.7	0.43	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
beta-BHC	ND	C	ug/kg	1.7	0.50	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
delta-BHC	ND	C	ug/kg	1.7	0.57	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
gamma-BHC	ND	C	ug/kg	1.7	0.56	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
alpha-Chlordane	ND	C	ug/kg	1.7	0.53	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
gamma-Chlordane	ND	C	ug/kg	1.7	0.50	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
4,4'-DDD	ND	C	ug/kg	1.7	1.1	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
4,4'-DDE	ND	U;MS U;MSD	ug/kg	1.7	0.56	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
4,4'-DDT	ND	U;MS U;MSD	ug/kg	1.7	0.50	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Dieldrin	ND	U;MSD	ug/kg	1.7	0.68	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endosulfan I	ND	C	ug/kg	1.7	0.47	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endosulfan II	ND	C	ug/kg	1.7	0.64	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	1.7	0.48	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endrin	ND	C	ug/kg	1.7	0.86	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endrin Aldehyde	ND	C	ug/kg	1.7	0.84	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Endrin Ketone	ND	C	ug/kg	1.7	0.85	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	1.7	0.64	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A
Heptachlor	ND	C	ug/kg	1.7	0.84	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457012**

Date Collected: 11/15/2021 15:55

Matrix: Solid

Sample ID: **SC-1-03-4**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Heptachlor Epoxide	ND	C	ug/kg	1.7	0.48	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Methoxychlor	ND	C	ug/kg	3.4	2.5	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Toxaphene	ND	C	ug/kg	35.9	18.1	SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	60.6	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Decachlorobiphenyl. (S)	60.7	C	%	30 - 135		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Tetrachloro-m-xylene (S)	70.5	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
Tetrachloro-m-xylene. (S)	65.1	C	%	30 - 111		SW846 8081B	11/24/21 16:20 J1H	11/29/21 20:24	KJH	A	
WET CHEMISTRY											
Moisture	3.1	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
Total Solids	96.9	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
METALS											
Lead, Total	0.93J	C,J	mg/kg	0.96	0.32	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:37	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457013**

Date Collected: 11/15/2021 12:00

Matrix: Solid

Sample ID: **SC-1-101**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10	4.6	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Benzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Bromochloromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Bromodichloromethane	ND	C	ug/kg	2.0	0.71	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Bromoform	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Bromomethane	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
2-Butanone	ND	C	ug/kg	10	3.2	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Carbon Disulfide	ND	C	ug/kg	2.0	0.63	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Carbon Tetrachloride	ND	C,3	ug/kg	2.0	0.51	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Chlorobenzene	ND	C	ug/kg	2.0	0.51	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Chlorodibromomethane	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Chloroethane	ND	C	ug/kg	5.0	0.85	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Chloroform	ND	C	ug/kg	2.0	0.53	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Chloromethane	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Cyclohexane	ND	C,2	ug/kg	2.0	0.51	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.0	0.25	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	2.0	0.54	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Dichlorodifluoromethane	ND	C,6	ug/kg	2.0	0.67	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.0	0.52	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	2.0	0.60	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.55	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.0	0.58	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Ethylbenzene	ND	C	ug/kg	2.0	0.68	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
2-Hexanone	ND	C	ug/kg	10	2.8	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Isopropylbenzene	ND	C	ug/kg	2.0	0.61	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Methyl acetate	ND	C	ug/kg	2.0	0.59	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Methyl cyclohexane	ND	C,5	ug/kg	2.0	0.56	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457013**  
Sample ID: **SC-1-101**

Date Collected: 11/15/2021 12:00 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10	3.8	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Methylene Chloride	ND	C	ug/kg	2.0	0.78	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Styrene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Tetrachloroethene	ND	C,4	ug/kg	2.0	0.60	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Toluene	ND	C	ug/kg	2.0	0.67	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Total Xylenes	ND	C	ug/kg	6.0	1.4	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,1,1-Trichloroethane	ND	C	ug/kg	2.0	0.62	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
1,1,2-Trichloroethane	ND	C	ug/kg	2.0	0.56	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Trichloroethene	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Trichlorofluoromethane	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Vinyl Chloride	ND	C	ug/kg	2.0	0.50	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
o-Xylene	ND	C	ug/kg	2.0	0.58	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
mp-Xylene	ND	C	ug/kg	4.0	0.83	SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101	C	%	56 - 124		SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
4-Bromofluorobenzene (S)	106	C	%	51 - 128		SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Dibromofluoromethane (S)	106	C	%	62 - 123		SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
Toluene-d8 (S)	106	C	%	59 - 131		SW846 8260C	11/15/21 12:00 TMP	11/23/21 16:10	TMP	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Acenaphthylene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Fluorene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Naphthalene	ND	C	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457013**

Date Collected: 11/15/2021 12:00

Matrix: Solid

Sample ID: **SC-1-101**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	51.7	17.6	SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	80.3	C	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Nitrobenzene-d5 (S)	86.1	C	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
Terphenyl-d14 (S)	97	C	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 13:36	GEC	A
<b>PCBs</b>										
Total Polychlorinated Biphenyl	ND	C	mg/kg	0.034	0.017	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1016	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1221	ND	C	mg/kg	0.034	0.017	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1232	ND	C	mg/kg	0.034	0.0071	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1242	ND	C	mg/kg	0.034	0.0071	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1248	ND	C	mg/kg	0.034	0.0061	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1254	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Aroclor-1260	ND	C	mg/kg	0.034	0.0041	SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	68.8	C	%	49 - 115		SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
Tetrachloro-m-xylene (S)	95.5	C	%	27 - 137		SW846 8082A	11/29/21 01:05 S7M	11/30/21 00:34	EGO	A
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/kg	1.7	0.43	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
beta-BHC	ND	C	ug/kg	1.7	0.50	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
delta-BHC	ND	C	ug/kg	1.7	0.57	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
gamma-BHC	ND	C	ug/kg	1.7	0.56	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
alpha-Chlordane	ND	C	ug/kg	1.7	0.53	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
gamma-Chlordane	ND	C	ug/kg	1.7	0.50	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
4,4'-DDD	ND	C	ug/kg	1.7	1.1	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
4,4'-DDE	ND	C	ug/kg	1.7	0.56	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
4,4'-DDT	ND	C	ug/kg	1.7	0.50	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Dieldrin	ND	C	ug/kg	1.7	0.67	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endosulfan I	ND	C	ug/kg	1.7	0.47	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endosulfan II	ND	C	ug/kg	1.7	0.63	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endosulfan Sulfate	ND	C	ug/kg	1.7	0.48	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endrin	ND	C	ug/kg	1.7	0.86	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endrin Aldehyde	ND	C	ug/kg	1.7	0.84	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Endrin Ketone	ND	C	ug/kg	1.7	0.85	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	1.7	0.63	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A
Heptachlor	ND	C	ug/kg	1.7	0.84	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457013**

Date Collected: 11/15/2021 12:00

Matrix: Solid

Sample ID: **SC-1-101**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Heptachlor Epoxide	ND	C	ug/kg	1.7	0.48	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Methoxychlor	ND	C	ug/kg	3.4	2.4	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Toxaphene	ND	C	ug/kg	35.7	18.1	SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	69.4	C	%	30 - 135		SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Decachlorobiphenyl. (S)	74.1	C	%	30 - 135		SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Tetrachloro-m-xylene (S)	78.1	C	%	30 - 111		SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
Tetrachloro-m-xylene. (S)	70.3	C	%	30 - 111		SW846 8081B	11/29/21 01:05 S7M	11/29/21 20:34	KJH	A	
WET CHEMISTRY											
Moisture	3.9	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
Total Solids	96.1	C,1	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A	
METALS											
Lead, Total	1.3	C	mg/kg	0.92	0.30	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:40	MSA	A1	

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457014**

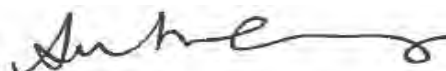
Date Collected: 11/13/2021 10:15

Matrix: Solid

Sample ID: **IA-CB-01 A**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.4	2.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.4	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.4	2.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.4	5.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	84.4	24.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:02	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.4	3.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.4	4.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.4	11.9	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	174	87.9	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	72.1	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Decachlorobiphenyl (S)	75.8	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:02	KJH	A
Decachlorobiphenyl. (S)	62.5	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Decachlorobiphenyl. (S)	70	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:02	KJH	A
Tetrachloro-m-xylene (S)	72.4	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A
Tetrachloro-m-xylene (S)	74	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:02	KJH	A
Tetrachloro-m-xylene. (S)	74.4	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:02	KJH	A
Tetrachloro-m-xylene. (S)	80.6	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:26	KJH	A



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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457015**  
Sample ID: **IA-CB-01 B**

Date Collected: 11/13/2021 10:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.4	2.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.4	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.4	2.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.4	5.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	84.4	24.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:12	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.4	3.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.4	4.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.4	11.9	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	174	87.9	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	73.4	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Decachlorobiphenyl (S)	87.1	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:12	KJH	A
Decachlorobiphenyl. (S)	81.2	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:12	KJH	A
Decachlorobiphenyl. (S)	60.5	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Tetrachloro-m-xylene (S)	81.9	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:12	KJH	A
Tetrachloro-m-xylene (S)	77.5	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Tetrachloro-m-xylene. (S)	84.6	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:37	KJH	A
Tetrachloro-m-xylene. (S)	83.9	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:12	KJH	A

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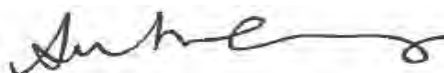
## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457016**  
Sample ID: **IA-CB-01 C**

Date Collected: 11/13/2021 10:45 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.3	2.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.3	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.3	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.3	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.3	2.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.3	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.3	5.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.3	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	83.3	24.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:23	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.3	3.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.3	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.3	3.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.3	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.3	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.3	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.3	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.3	3.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.3	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.3	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.2	11.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	172	86.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	72.2	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Decachlorobiphenyl (S)	105	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:23	KJH	A
Decachlorobiphenyl. (S)	97.3	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:23	KJH	A
Decachlorobiphenyl. (S)	57.3	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Tetrachloro-m-xylene (S)	78	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A
Tetrachloro-m-xylene (S)	87.5	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:23	KJH	A
Tetrachloro-m-xylene. (S)	88.7	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:23	KJH	A
Tetrachloro-m-xylene. (S)	84.7	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:47	KJH	A



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Project Coordinator

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457017**

Date Collected: 11/13/2021 11:15

Matrix: Solid

Sample ID: **IA-CB-02 A**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.2	2.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.2	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.2	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.2	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.2	2.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.2	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.2	5.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.2	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	82.3	23.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:34	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.2	3.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.2	2.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.2	3.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.2	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.2	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.2	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.2	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.2	3.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.2	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.2	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.0	11.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	169	85.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	45	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Decachlorobiphenyl (S)	88.1	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:34	KJH	A
Decachlorobiphenyl. (S)	36	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Decachlorobiphenyl. (S)	80.1	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:34	KJH	A
Tetrachloro-m-xylene (S)	74.1	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:34	KJH	A
Tetrachloro-m-xylene (S)	66.1	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A
Tetrachloro-m-xylene. (S)	75.1	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:34	KJH	A
Tetrachloro-m-xylene. (S)	71.4	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 16:58	KJH	A

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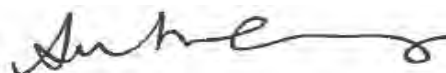
## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457018**  
Sample ID: **IA-CB-02 B**

Date Collected: 11/13/2021 11:30 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.5	2.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.5	2.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.5	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.5	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.5	2.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.5	2.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.5	5.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.5	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	85.0	24.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:44	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.5	3.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.5	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.5	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.5	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.5	4.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.5	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.5	4.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.5	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.5	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.5	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.5	12.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	175	88.5	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	56.5	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Decachlorobiphenyl (S)	67.7	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:44	KJH	A
Decachlorobiphenyl. (S)	48.3	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Decachlorobiphenyl. (S)	66.2	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:44	KJH	A
Tetrachloro-m-xylene (S)	71.7	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:44	KJH	A
Tetrachloro-m-xylene (S)	68.8	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Tetrachloro-m-xylene. (S)	76	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:09	KJH	A
Tetrachloro-m-xylene. (S)	71.6	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:44	KJH	A



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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457019**

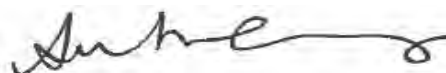
Date Collected: 11/13/2021 11:45

Matrix: Solid

Sample ID: **IA-CB-02 C**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	UJ:HT	ug/kg	8.4	2.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
beta-BHC	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
delta-BHC	ND	UJ:HT	ug/kg	8.4	2.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
gamma-BHC	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
alpha-Chlordane	ND	UJ:HT	ug/kg	8.4	2.6	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
gamma-Chlordane	ND	UJ:HT	ug/kg	8.4	2.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
4,4'-DDD	ND	UJ:HT	ug/kg	8.4	5.4	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
4,4'-DDE	ND	UJ:HT	ug/kg	8.4	2.7	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
4,4'-DDT	ND	UJ:HT	ug/kg	83.9	24.2	SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:55	KJH	A
Dieldrin	ND	UJ:HT	ug/kg	8.4	3.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endosulfan I	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endosulfan II	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endosulfan Sulfate	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endrin	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endrin Aldehyde	ND	UJ:HT	ug/kg	8.4	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Endrin Ketone	ND	UJ:HT	ug/kg	8.4	4.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
alpha-HCH (alpha-BHC)	ND	UJ:HT	ug/kg	8.4	3.1	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Heptachlor	ND	UJ:HT	ug/kg	8.4	4.0	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Heptachlor Epoxide	ND	UJ:HT	ug/kg	8.4	2.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Methoxychlor	ND	UJ:HT	ug/kg	16.3	11.8	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Toxaphene	ND	UJ:HT	ug/kg	173	87.3	SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	85.6	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:55	KJH	A
Decachlorobiphenyl (S)	44.6	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Decachlorobiphenyl. (S)	36.4	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Decachlorobiphenyl. (S)	80.2	NJ:HT	%	30 - 135		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:55	KJH	A
Tetrachloro-m-xylene (S)	73	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:55	KJH	A
Tetrachloro-m-xylene (S)	59.1	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Tetrachloro-m-xylene. (S)	64.3	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 17:19	KJH	A
Tetrachloro-m-xylene. (S)	74.4	NJ:HT	%	30 - 111		SW846 8081B	12/1/21 15:50 J1H	12/2/21 15:55	KJH	A



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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457020**

Date Collected: 11/13/2021 14:15

Matrix: Solid

Sample ID: **IA-Ref-03 A**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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**METALS**

Arsenic, Total	2.5	C	mg/kg	1.5	0.50	SW846 6020A	12/7/21 15:18 RMD	12/8/21 15:19	MO	A
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Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457021**

Date Collected: 11/13/2021 14:15

Matrix: Solid

Sample ID: **IA-Ref-03 B**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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**METALS**

Arsenic, Total	2.4	C	mg/kg	1.5	0.50	SW846 6020A	12/7/21 15:18 RMD	12/8/21 15:22	MO	A
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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457022**

Date Collected: 11/13/2021 14:45

Matrix: Solid

Sample ID: **IA-Ref-03 C**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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**METALS**

Arsenic, Total	3.1	C	mg/kg	1.3	0.42	SW846 6020A	12/7/21 15:18 RMD	12/8/21 15:36	MO	A
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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457023**

Date Collected: 11/15/2021 09:30

Matrix: Solid

Sample ID: **IA-Ref-04 A**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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### METALS

Arsenic, Total	2.0	C	mg/kg	1.4	0.48	SW846 6020A	12/7/21 15:18 RMD	12/8/21 15:39	MO	A
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Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457024**

Date Collected: 11/15/2021 09:45

Matrix: Solid

Sample ID: **IA-Ref-04 B**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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**METALS**

Arsenic, Total	2.4	C	mg/kg	1.5	0.50	SW846 6020A	12/7/21 15:18 RMD	12/8/21 15:43	MO	A
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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457025**

Date Collected: 11/15/2021 10:30

Matrix: Solid

Sample ID: **IA-Ref-04 C**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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**METALS**

Arsenic, Total	1.8	C	mg/kg	1.5	0.49	SW846 6020A	12/7/21 15:18 RMD	12/8/21 16:09	MO	A
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Ms. Sarah S Leung  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457026**

Date Collected: 11/15/2021 10:30

Matrix: Water

Sample ID: **EB-SOIL-20211113**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/L	0.020	0.0026	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
beta-BHC	ND	C	ug/L	0.020	0.0060	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
delta-BHC	ND	C	ug/L	0.020	0.0029	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
gamma-BHC	ND	C	ug/L	0.020	0.0048	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
alpha-Chlordane	ND	C	ug/L	0.020	0.0080	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
gamma-Chlordane	ND	C	ug/L	0.020	0.0049	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
4,4'-DDD	ND	C,2	ug/L	0.020	0.0072	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
4,4'-DDE	ND	C	ug/L	0.020	0.0026	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
4,4'-DDT	ND	U:MS	ug/L	0.020	0.013	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Dieldrin	ND	C	ug/L	0.020	0.0047	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endosulfan I	ND	C	ug/L	0.020	0.0057	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endosulfan II	ND	C	ug/L	0.020	0.012	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endosulfan Sulfate	ND	C	ug/L	0.020	0.0090	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endrin	ND	C	ug/L	0.020	0.0060	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endrin Aldehyde	ND	C	ug/L	0.020	0.0077	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Endrin Ketone	ND	C	ug/L	0.020	0.010	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/L	0.020	0.0031	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Heptachlor	ND	C,1	ug/L	0.020	0.0059	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Heptachlor Epoxide	ND	C	ug/L	0.020	0.0040	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Methoxychlor	ND	C	ug/L	0.020	0.014	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Toxaphene	ND	C	ug/L	1.0	0.19	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	67.2	C	%	30 - 140		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Decachlorobiphenyl. (S)	72.8	C	%	30 - 140		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Tetrachloro-m-xylene (S)	49	C	%	30 - 123		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
Tetrachloro-m-xylene. (S)	50.1	C	%	30 - 123		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:36	KJH	A
<b>METALS</b>										
Arsenic, Total	ND	C	mg/L	0.0033	0.0011	SW846 6020A	11/29/21 22:09 SXC	12/3/21 07:32	MSA	C1



Ms. Sarah S Leung  
Project Coordinator

KAK 1/05/2022

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457027**

Date Collected: 11/16/2021 08:00

Matrix: Water

Sample ID: **EB-SOIL-20211116**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/L	10.0	3.1	SW846 8260C		11/29/21 00:43	PDK	C
Benzene	ND	C	ug/L	1.0	0.23	SW846 8260C		11/29/21 00:43	PDK	C
Bromochloromethane	ND	C	ug/L	1.0	0.32	SW846 8260C		11/29/21 00:43	PDK	C
Bromodichloromethane	ND	C	ug/L	1.0	0.27	SW846 8260C		11/29/21 00:43	PDK	C
Bromoform	ND	C	ug/L	1.0	0.40	SW846 8260C		11/29/21 00:43	PDK	C
Bromomethane	ND	U:MB	ug/L	1.0	0.39	SW846 8260C		11/29/21 00:43	PDK	C
2-Butanone	ND	C	ug/L	10.0	1.8	SW846 8260C		11/29/21 00:43	PDK	C
Carbon Disulfide	ND	C	ug/L	1.0	0.23	SW846 8260C		11/29/21 00:43	PDK	C
Carbon Tetrachloride	ND	C	ug/L	1.0	0.31	SW846 8260C		11/29/21 00:43	PDK	C
Chlorobenzene	ND	C	ug/L	1.0	0.19	SW846 8260C		11/29/21 00:43	PDK	C
Chlorodibromomethane	ND	C	ug/L	1.0	0.45	SW846 8260C		11/29/21 00:43	PDK	C
Chloroethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C
Chloroform	5.1	C	ug/L	1.0	0.21	SW846 8260C		11/29/21 00:43	PDK	C
Chloromethane	ND	C	ug/L	1.0	0.31	SW846 8260C		11/29/21 00:43	PDK	C
Cyclohexane	ND	C	ug/L	1.0	0.29	SW846 8260C		11/29/21 00:43	PDK	C
1,2-Dibromo-3-chloropropane	ND	C	ug/L	7.0	1.5	SW846 8260C		11/29/21 00:43	PDK	C
1,2-Dibromoethane	ND	C	ug/L	1.0	0.28	SW846 8260C		11/29/21 00:43	PDK	C
1,2-Dichlorobenzene	ND	C	ug/L	1.0	0.38	SW846 8260C		11/29/21 00:43	PDK	C
1,3-Dichlorobenzene	ND	C	ug/L	1.0	0.25	SW846 8260C		11/29/21 00:43	PDK	C
1,4-Dichlorobenzene	ND	C	ug/L	1.0	0.27	SW846 8260C		11/29/21 00:43	PDK	C
Dichlorodifluoromethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C
1,1-Dichloroethane	ND	C	ug/L	1.0	0.28	SW846 8260C		11/29/21 00:43	PDK	C
1,2-Dichloroethane	ND	C	ug/L	1.0	0.32	SW846 8260C		11/29/21 00:43	PDK	C
1,1-Dichloroethene	ND	C	ug/L	1.0	0.29	SW846 8260C		11/29/21 00:43	PDK	C
cis-1,2-Dichloroethene	ND	C	ug/L	1.0	0.32	SW846 8260C		11/29/21 00:43	PDK	C
trans-1,2-Dichloroethene	ND	C	ug/L	1.0	0.26	SW846 8260C		11/29/21 00:43	PDK	C
1,2-Dichloropropane	ND	C	ug/L	1.0	0.24	SW846 8260C		11/29/21 00:43	PDK	C
cis-1,3-Dichloropropene	ND	C	ug/L	1.0	0.31	SW846 8260C		11/29/21 00:43	PDK	C
trans-1,3-Dichloropropene	ND	C	ug/L	1.0	0.29	SW846 8260C		11/29/21 00:43	PDK	C
Ethylbenzene	ND	C	ug/L	1.0	0.34	SW846 8260C		11/29/21 00:43	PDK	C
Freon 113	ND	C	ug/L	1.0	0.26	SW846 8260C		11/29/21 00:43	PDK	C
2-Hexanone	ND	C	ug/L	5.0	1.3	SW846 8260C		11/29/21 00:43	PDK	C
Isopropylbenzene	ND	C	ug/L	1.0	0.22	SW846 8260C		11/29/21 00:43	PDK	C
Methyl acetate	ND	C	ug/L	2.0	0.32	SW846 8260C		11/29/21 00:43	PDK	C
Methyl cyclohexane	ND	C	ug/L	1.0	0.30	SW846 8260C		11/29/21 00:43	PDK	C
Methyl t-Butyl Ether	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C

KAK 1/05/2022

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457027**

Date Collected: 11/16/2021 08:00

Matrix: Water

Sample ID: **EB-SOIL-20211116**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/L	5.0	1.5	SW846 8260C		11/29/21 00:43	PDK	C
Methylene Chloride	0.82J	C,J	ug/L	1.0	0.45	SW846 8260C		11/29/21 00:43	PDK	C
Styrene	ND	C	ug/L	1.0	0.24	SW846 8260C		11/29/21 00:43	PDK	C
1,1,2,2-Tetrachloroethane	ND	C	ug/L	1.0	0.34	SW846 8260C		11/29/21 00:43	PDK	C
Tetrachloroethene	ND	C	ug/L	1.0	0.35	SW846 8260C		11/29/21 00:43	PDK	C
Toluene	ND	C	ug/L	1.0	0.23	SW846 8260C		11/29/21 00:43	PDK	C
Total Xylenes	ND	C	ug/L	3.0	0.66	SW846 8260C		11/29/21 00:43	PDK	C
1,2,3-Trichlorobenzene	ND	C	ug/L	2.0	0.93	SW846 8260C		11/29/21 00:43	PDK	C
1,2,4-Trichlorobenzene	ND	C	ug/L	2.0	0.82	SW846 8260C		11/29/21 00:43	PDK	C
1,1,1-Trichloroethane	ND	C	ug/L	1.0	0.22	SW846 8260C		11/29/21 00:43	PDK	C
1,1,2-Trichloroethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C
Trichloroethene	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C
Trichlorofluoromethane	ND	C	ug/L	1.0	0.24	SW846 8260C		11/29/21 00:43	PDK	C
Vinyl Chloride	ND	C	ug/L	1.0	0.30	SW846 8260C		11/29/21 00:43	PDK	C
o-Xylene	ND	C	ug/L	1.0	0.33	SW846 8260C		11/29/21 00:43	PDK	C
mp-Xylene	ND	C	ug/L	2.0	0.52	SW846 8260C		11/29/21 00:43	PDK	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.8	C	%	62 - 133		SW846 8260C			11/29/21 00:43	PDK C
4-Bromofluorobenzene (S)	102	C	%	79 - 114		SW846 8260C			11/29/21 00:43	PDK C
Dibromofluoromethane (S)	84.2	C	%	78 - 116		SW846 8260C			11/29/21 00:43	PDK C
Toluene-d8 (S)	90.3	C	%	76 - 127		SW846 8260C			11/29/21 00:43	PDK C
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/L	1.4	0.14	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Acenaphthylene	ND	C	ug/L	1.4	0.18	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Anthracene	ND	C	ug/L	1.4	0.14	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Benzo(a)anthracene	ND	C	ug/L	1.4	0.16	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Benzo(a)pyrene	ND	C	ug/L	1.4	0.21	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Benzo(b)fluoranthene	ND	C	ug/L	1.4	0.12	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Benzo(g,h,i)perylene	ND	C	ug/L	1.4	0.21	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Benzo(k)fluoranthene	ND	C	ug/L	1.4	0.18	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Chrysene	ND	C	ug/L	1.4	0.14	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Dibenzo(a,h)anthracene	ND	C	ug/L	1.4	0.20	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Fluoranthene	ND	C	ug/L	1.4	0.16	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Fluorene	ND	C	ug/L	1.4	0.19	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Indeno(1,2,3-cd)pyrene	ND	C	ug/L	1.4	0.11	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Naphthalene	ND	C	ug/L	1.4	0.17	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E
Phenanthrene	ND	C	ug/L	1.4	0.12	SW846 8270D	11/22/21 15:00	IXK	11/28/21 14:55	GEC E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457027**

Date Collected: 11/16/2021 08:00

Matrix: Water

Sample ID: **EB-SOIL-20211116**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	C	ug/L	1.4	0.15	SW846 8270D	11/22/21 15:00 IXK	11/28/21 14:55	GEC	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	77.8	C	%	24 - 116		SW846 8270D	11/22/21 15:00 IXK	11/28/21 14:55	GEC	E
Nitrobenzene-d5 (S)	91.2	C	%	32 - 125		SW846 8270D	11/22/21 15:00 IXK	11/28/21 14:55	GEC	E
Terphenyl-d14 (S)	92.6	C	%	41 - 145		SW846 8270D	11/22/21 15:00 IXK	11/28/21 14:55	GEC	E
<b>SEMIVOLATILE SIM</b>										
Acenaphthene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Acenaphthylene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Anthracene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Benzo(a)anthracene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Benzo(a)pyrene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Benzo(b)fluoranthene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Benzo(g,h,i)perylene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Benzo(k)fluoranthene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Chrysene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Dibenzo(a,h)anthracene	ND	C	ug/L	0.066	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Fluoranthene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Fluorene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Indeno(1,2,3-cd)pyrene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Naphthalene	ND	C	ug/L	0.095	0.045	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Phenanthrene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Pyrene	ND	C	ug/L	0.095	0.0095	8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	75.1	C	%	29 - 112		8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
Fluoranthene-d10 (S)	92.8	C	%	45 - 130		8270 SIM	11/22/21 15:00 IXK	11/24/21 15:12	CGS	E
<b>PCBs</b>										
Aroclor-1016	ND	C	ug/L	0.50	0.17	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1221	ND	C	ug/L	0.50	0.28	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1232	ND	C	ug/L	0.50	0.18	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1242	ND	C	ug/L	0.50	0.11	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1248	ND	C	ug/L	0.50	0.14	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1254	ND	C	ug/L	0.50	0.070	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1260	ND	C	ug/L	0.50	0.21	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1262	ND	C	ug/L	0.50	0.14	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Aroclor-1268	ND	C	ug/L	0.50	0.19	SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457027**

Date Collected: 11/16/2021 08:00

Matrix: Water

Sample ID: **EB-SOIL-20211116**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Decachlorobiphenyl (S)	98.9	C	%	30 - 140		SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Decachlorobiphenyl. (S)	71	C	%	30 - 140		SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Tetrachloro-m-xylene (S)	63.3	C	%	30 - 133		SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
Tetrachloro-m-xylene. (S)	58.3	C	%	30 - 133		SW846 8082A	11/22/21 15:30 AJW	11/22/21 23:16	EGO	B
<b>PESTICIDES</b>										
Aldrin	ND	C	ug/L	0.020	0.0026	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
beta-BHC	ND	C	ug/L	0.020	0.0060	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
delta-BHC	ND	C	ug/L	0.020	0.0029	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
gamma-BHC	ND	C	ug/L	0.020	0.0048	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
alpha-Chlordane	ND	C	ug/L	0.020	0.0080	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
gamma-Chlordane	ND	C	ug/L	0.020	0.0049	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
4,4'-DDD	ND	C,2	ug/L	0.020	0.0072	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
4,4'-DDE	ND	C	ug/L	0.020	0.0026	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
4,4'-DDT	ND	U:MS	ug/L	0.020	0.013	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Dieldrin	ND	C	ug/L	0.020	0.0047	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endosulfan I	ND	C	ug/L	0.020	0.0057	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endosulfan II	ND	C	ug/L	0.020	0.012	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endosulfan Sulfate	ND	C	ug/L	0.020	0.0090	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endrin	ND	C	ug/L	0.020	0.0060	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endrin Aldehyde	ND	C	ug/L	0.020	0.0077	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Endrin Ketone	ND	C	ug/L	0.020	0.010	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/L	0.020	0.0031	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Heptachlor	ND	C,1	ug/L	0.020	0.0059	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Heptachlor Epoxide	ND	C	ug/L	0.020	0.0040	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Methoxychlor	ND	C	ug/L	0.020	0.014	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Toxaphene	ND	C	ug/L	1.0	0.19	SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	59	C	%	30 - 140		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Decachlorobiphenyl. (S)	64.3	C	%	30 - 140		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Tetrachloro-m-xylene (S)	47.3	C	%	30 - 123		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
Tetrachloro-m-xylene. (S)	48.9	C	%	30 - 123		SW846 8081B	11/22/21 15:30 AJW	11/23/21 15:57	KJH	A
<b>METALS</b>										
Lead, Total	ND	C	mg/L	0.0022	0.00074	SW846 6020A	11/29/21 22:09 SXC	12/3/21 08:02	MSA	G1

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457027**

Date Collected: 11/16/2021 08:00

Matrix: Water

Sample ID: **EB-SOIL-20211116**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457028**

Date Collected: 11/16/2021 14:25

Matrix: Solid

Sample ID: **SC-2-21-15**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	7.7J	C,J	ug/kg	9.3	4.3	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Benzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Bromochloromethane	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Bromodichloromethane	ND	C	ug/kg	1.9	0.66	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Bromoform	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Bromomethane	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
2-Butanone	ND	C	ug/kg	9.3	3.0	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Carbon Disulfide	ND	C	ug/kg	1.9	0.59	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Carbon Tetrachloride	ND	C,2	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Chlorobenzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Chlorodibromomethane	ND	C	ug/kg	1.9	0.63	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Chloroethane	ND	C	ug/kg	4.7	0.79	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Chloroform	ND	C	ug/kg	1.9	0.49	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Chloromethane	ND	C	ug/kg	1.9	0.51	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Cyclohexane	ND	C,1	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	1.9	0.23	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	1.9	0.50	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Dichlorodifluoromethane	ND	C,5	ug/kg	1.9	0.62	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	1.9	0.48	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	1.9	0.56	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	1.9	0.51	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	1.9	0.54	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Ethylbenzene	ND	C	ug/kg	1.9	0.63	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
2-Hexanone	ND	C	ug/kg	9.3	2.6	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Isopropylbenzene	ND	C	ug/kg	1.9	0.57	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Methyl acetate	ND	C	ug/kg	1.9	0.55	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Methyl cyclohexane	ND	C,4	ug/kg	1.9	0.52	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457028**  
Sample ID: **SC-2-21-15**

Date Collected: 11/16/2021 14:25 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	9.3	3.5	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Methylene Chloride	ND	C	ug/kg	1.9	0.73	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Styrene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	1.9	0.52	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Tetrachloroethene	ND	C,3	ug/kg	1.9	0.56	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Toluene	ND	C	ug/kg	1.9	0.62	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Total Xylenes	ND	C	ug/kg	5.6	1.3	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2,3-Trichlorobenzene	ND	C	ug/kg	4.7	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,2,4-Trichlorobenzene	ND	C	ug/kg	4.7	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,1,1-Trichloroethane	ND	C	ug/kg	1.9	0.58	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
1,1,2-Trichloroethane	ND	C	ug/kg	1.9	0.52	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Trichloroethene	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Trichlorofluoromethane	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Vinyl Chloride	ND	C	ug/kg	1.9	0.47	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
o-Xylene	ND	C	ug/kg	1.9	0.54	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
mp-Xylene	ND	C	ug/kg	3.7	0.77	SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102	C	%	56 - 124		SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
4-Bromofluorobenzene (S)	105	C	%	51 - 128		SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Dibromofluoromethane (S)	106	C	%	62 - 123		SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
Toluene-d8 (S)	106	C	%	59 - 131		SW846 8260C	11/16/21 14:25 TMP	11/23/21 18:43	TMP	E
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Acenaphthylene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Anthracene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Benzo(b)fluoranthene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Benzo(g,h,i)perylene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Chrysene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Dibenzo(a,h)anthracene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Fluoranthene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Fluorene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Naphthalene	ND	C	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Phenanthrene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457028**

Date Collected: 11/16/2021 14:25

Matrix: Solid

Sample ID: **SC-2-21-15**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	63.0	21.4	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	78.8	C	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Nitrobenzene-d5 (S)	82.6	C	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
Terphenyl-d14 (S)	97.6	C	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:17	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	21.1	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	78.9	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	0.92J	C,J	mg/kg	1.2	0.40	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:44	MSA	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457029**

Date Collected: 11/16/2021 15:25

Matrix: Solid

Sample ID: **SC-2-22-18**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/kg	10.6	4.9	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Benzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Bromochloromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Bromodichloromethane	ND	C	ug/kg	2.1	0.76	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Bromoform	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Bromomethane	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
2-Butanone	ND	C	ug/kg	10.6	3.4	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Carbon Disulfide	ND	C	ug/kg	2.1	0.67	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Carbon Tetrachloride	ND	C,2	ug/kg	2.1	0.54	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Chlorobenzene	ND	C	ug/kg	2.1	0.54	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Chlorodibromomethane	ND	C	ug/kg	2.1	0.72	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Chloroethane	ND	C	ug/kg	5.3	0.90	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Chloroform	ND	C	ug/kg	2.1	0.56	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Chloromethane	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Cyclohexane	ND	C,1	ug/kg	2.1	0.54	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,2-Dibromo-3-chloropropane	ND	C	ug/kg	2.1	0.27	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,2-Dibromoethane	ND	C	ug/kg	2.1	0.57	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,2-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,3-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,4-Dichlorobenzene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Dichlorodifluoromethane	ND	C,5	ug/kg	2.1	0.71	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,1-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,2-Dichloroethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,1-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
cis-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
trans-1,2-Dichloroethene	ND	C	ug/kg	2.1	0.55	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
1,2-Dichloropropane	ND	C	ug/kg	2.1	0.64	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
cis-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.59	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
trans-1,3-Dichloropropene	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Ethylbenzene	ND	C	ug/kg	2.1	0.72	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Freon 113	ND	U; LCS U;LCSD	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
2-Hexanone	ND	C	ug/kg	10.6	3.0	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Isopropylbenzene	ND	C	ug/kg	2.1	0.65	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Methyl acetate	ND	C	ug/kg	2.1	0.63	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Methyl cyclohexane	ND	C,4	ug/kg	2.1	0.60	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E
Methyl t-Butyl Ether	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457029**  
Sample ID: **SC-2-22-18**

Date Collected: 11/16/2021 15:25 Matrix: Solid  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/kg	10.6	4.0	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Methylene Chloride	ND	C	ug/kg	2.1	0.83	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Styrene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
1,1,2,2-Tetrachloroethane	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Tetrachloroethene	ND	C,3	ug/kg	2.1	0.64	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Toluene	ND	C	ug/kg	2.1	0.71	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Total Xylenes	ND	C	ug/kg	6.4	1.5	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
1,2,3-Trichlorobenzene	ND	C	ug/kg	5.3	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
1,2,4-Trichlorobenzene	ND	C	ug/kg	5.3	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
1,1,1-Trichloroethane	ND	C	ug/kg	2.1	0.66	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
1,1,2-Trichloroethane	ND	C	ug/kg	2.1	0.60	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Trichloroethene	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Trichlorofluoromethane	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Vinyl Chloride	ND	C	ug/kg	2.1	0.53	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
o-Xylene	ND	C	ug/kg	2.1	0.62	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
mp-Xylene	ND	C	ug/kg	4.3	0.88	SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	111	C	%	56 - 124		SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
4-Bromofluorobenzene (S)	104	C	%	51 - 128		SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Dibromofluoromethane (S)	108	C	%	62 - 123		SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
Toluene-d8 (S)	103	C	%	59 - 131		SW846 8260C	11/16/21 15:25 TMP	11/23/21 19:08	TMP	E	
SEMIVOLATILES											
Acenaphthene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Acenaphthylene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Anthracene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Benzo(a)anthracene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Benzo(a)pyrene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Benzo(b)fluoranthene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Benzo(g,h,i)perylene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Benzo(k)fluoranthene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Chrysene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Dibenzo(a,h)anthracene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Fluoranthene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Fluorene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Indeno(1,2,3-cd)pyrene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Naphthalene	ND	C	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	
Phenanthrene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A	

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457029**

Date Collected: 11/16/2021 15:25

Matrix: Solid

Sample ID: **SC-2-22-18**

Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	U;MS U;MSD	ug/kg	65.1	22.1	SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	77.8	C	%	40 - 110		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A
Nitrobenzene-d5 (S)	81.2	C	%	38 - 112		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A
Terphenyl-d14 (S)	96.3	C	%	45 - 126		SW846 8270D	11/24/21 17:10 JLH	11/29/21 17:42	GEC	A
<b>WET CHEMISTRY</b>										
Moisture	23.7	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
Total Solids	76.3	C	%	0.1	0.01	S2540G-11		11/23/21 08:23	KMS	A
<b>METALS</b>										
Lead, Total	1.7	C	mg/kg	1.2	0.39	SW846 6020A	11/30/21 21:13 SXC	12/3/21 05:47	MSA	A1

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457030**  
Sample ID: **TB-20211116**

Date Collected: 11/16/2021 00:00 Matrix: Water  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	C	ug/L	10.0	3.1	SW846 8260C		11/28/21 23:35	PDK	A
Benzene	ND	C	ug/L	1.0	0.23	SW846 8260C		11/28/21 23:35	PDK	A
Bromochloromethane	ND	C	ug/L	1.0	0.32	SW846 8260C		11/28/21 23:35	PDK	A
Bromodichloromethane	ND	C	ug/L	1.0	0.27	SW846 8260C		11/28/21 23:35	PDK	A
Bromoform	ND	C	ug/L	1.0	0.40	SW846 8260C		11/28/21 23:35	PDK	A
Bromomethane	ND	U:MB	ug/L	1.0	0.39	SW846 8260C		11/28/21 23:35	PDK	A
2-Butanone	ND	C	ug/L	10.0	1.8	SW846 8260C		11/28/21 23:35	PDK	A
Carbon Disulfide	ND	C	ug/L	1.0	0.23	SW846 8260C		11/28/21 23:35	PDK	A
Carbon Tetrachloride	ND	C	ug/L	1.0	0.31	SW846 8260C		11/28/21 23:35	PDK	A
Chlorobenzene	ND	C	ug/L	1.0	0.19	SW846 8260C		11/28/21 23:35	PDK	A
Chlorodibromomethane	ND	C	ug/L	1.0	0.45	SW846 8260C		11/28/21 23:35	PDK	A
Chloroethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A
Chloroform	ND	C	ug/L	1.0	0.21	SW846 8260C		11/28/21 23:35	PDK	A
Chloromethane	ND	C	ug/L	1.0	0.31	SW846 8260C		11/28/21 23:35	PDK	A
Cyclohexane	ND	C	ug/L	1.0	0.29	SW846 8260C		11/28/21 23:35	PDK	A
1,2-Dibromo-3-chloropropane	ND	C	ug/L	7.0	1.5	SW846 8260C		11/28/21 23:35	PDK	A
1,2-Dibromoethane	ND	C	ug/L	1.0	0.28	SW846 8260C		11/28/21 23:35	PDK	A
1,2-Dichlorobenzene	ND	C	ug/L	1.0	0.38	SW846 8260C		11/28/21 23:35	PDK	A
1,3-Dichlorobenzene	ND	C	ug/L	1.0	0.25	SW846 8260C		11/28/21 23:35	PDK	A
1,4-Dichlorobenzene	ND	C	ug/L	1.0	0.27	SW846 8260C		11/28/21 23:35	PDK	A
Dichlorodifluoromethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A
1,1-Dichloroethane	ND	C	ug/L	1.0	0.28	SW846 8260C		11/28/21 23:35	PDK	A
1,2-Dichloroethane	ND	C	ug/L	1.0	0.32	SW846 8260C		11/28/21 23:35	PDK	A
1,1-Dichloroethene	ND	C	ug/L	1.0	0.29	SW846 8260C		11/28/21 23:35	PDK	A
cis-1,2-Dichloroethene	ND	C	ug/L	1.0	0.32	SW846 8260C		11/28/21 23:35	PDK	A
trans-1,2-Dichloroethene	ND	C	ug/L	1.0	0.26	SW846 8260C		11/28/21 23:35	PDK	A
1,2-Dichloropropane	ND	C	ug/L	1.0	0.24	SW846 8260C		11/28/21 23:35	PDK	A
cis-1,3-Dichloropropene	ND	C	ug/L	1.0	0.31	SW846 8260C		11/28/21 23:35	PDK	A
trans-1,3-Dichloropropene	ND	C	ug/L	1.0	0.29	SW846 8260C		11/28/21 23:35	PDK	A
Ethylbenzene	ND	C	ug/L	1.0	0.34	SW846 8260C		11/28/21 23:35	PDK	A
Freon 113	ND	C	ug/L	1.0	0.26	SW846 8260C		11/28/21 23:35	PDK	A
2-Hexanone	ND	C	ug/L	5.0	1.3	SW846 8260C		11/28/21 23:35	PDK	A
Isopropylbenzene	ND	C	ug/L	1.0	0.22	SW846 8260C		11/28/21 23:35	PDK	A
Methyl acetate	ND	C	ug/L	2.0	0.32	SW846 8260C		11/28/21 23:35	PDK	A
Methyl cyclohexane	ND	C	ug/L	1.0	0.30	SW846 8260C		11/28/21 23:35	PDK	A
Methyl t-Butyl Ether	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

Lab ID: **3213457030**  
Sample ID: **TB-20211116**

Date Collected: 11/16/2021 00:00 Matrix: Water  
Date Received: 11/19/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	C	ug/L	5.0	1.5	SW846 8260C		11/28/21 23:35	PDK	A
Methylene Chloride	ND	C	ug/L	1.0	0.45	SW846 8260C		11/28/21 23:35	PDK	A
Styrene	ND	C	ug/L	1.0	0.24	SW846 8260C		11/28/21 23:35	PDK	A
1,1,2,2-Tetrachloroethane	ND	C	ug/L	1.0	0.34	SW846 8260C		11/28/21 23:35	PDK	A
Tetrachloroethene	ND	C	ug/L	1.0	0.35	SW846 8260C		11/28/21 23:35	PDK	A
Toluene	ND	C	ug/L	1.0	0.23	SW846 8260C		11/28/21 23:35	PDK	A
Total Xylenes	ND	C	ug/L	3.0	0.66	SW846 8260C		11/28/21 23:35	PDK	A
1,2,3-Trichlorobenzene	ND	C	ug/L	2.0	0.93	SW846 8260C		11/28/21 23:35	PDK	A
1,2,4-Trichlorobenzene	ND	C	ug/L	2.0	0.82	SW846 8260C		11/28/21 23:35	PDK	A
1,1,1-Trichloroethane	ND	C	ug/L	1.0	0.22	SW846 8260C		11/28/21 23:35	PDK	A
1,1,2-Trichloroethane	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A
Trichloroethene	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A
Trichlorofluoromethane	ND	C	ug/L	1.0	0.24	SW846 8260C		11/28/21 23:35	PDK	A
Vinyl Chloride	ND	C	ug/L	1.0	0.30	SW846 8260C		11/28/21 23:35	PDK	A
o-Xylene	ND	C	ug/L	1.0	0.33	SW846 8260C		11/28/21 23:35	PDK	A
mp-Xylene	ND	C	ug/L	2.0	0.52	SW846 8260C		11/28/21 23:35	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.7	C	%	62 - 133		SW846 8260C		11/28/21 23:35	PDK	A
4-Bromofluorobenzene (S)	104	C	%	79 - 114		SW846 8260C		11/28/21 23:35	PDK	A
Dibromofluoromethane (S)	83.7	C	%	78 - 116		SW846 8260C		11/28/21 23:35	PDK	A
Toluene-d8 (S)	91.3	C	%	76 - 127		SW846 8260C		11/28/21 23:35	PDK	A

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

### PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3213457001	1	SC-2-19-20	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
3213457001	2	SC-2-19-20	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
3213457001	3	SC-2-19-20	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
3213457001	4	SC-2-19-20	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
3213457001	5	SC-2-19-20	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
3213457001	6	SC-2-19-20	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
3213457002	1	SC-2-20-15	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
3213457002	2	SC-2-20-15	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
3213457002	3	SC-2-20-15	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
3213457002	4	SC-2-20-15	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
3213457002	5	SC-2-20-15	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
3213457002	6	SC-2-20-15	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
3213457003	1	SC-C7-01-5	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
3213457003	2	SC-C7-01-5	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
3213457003	3	SC-C7-01-5	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				

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<b>3213457003</b>	4	SC-C7-01-5	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
<b>3213457003</b>	5	SC-C7-01-5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
<b>3213457003</b>	6	SC-C7-01-5	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
<b>3213457004</b>	1	SC-C7-02-5	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457004</b>	2	SC-C7-02-5	SW846 8270D	Phenanthrene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as 59.7 and the control limits were 62 to 109.				
<b>3213457004</b>	3	SC-C7-02-5	SW846 8270D	Phenanthrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as 126 and the control limits were 62 to 109.				
<b>3213457004</b>	4	SC-C7-02-5	SW846 8270D	Phenanthrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Phenanthrene. The RPD was reported as 48.1 and the upper control limit is 20.				
<b>3213457004</b>	5	SC-C7-02-5	SW846 8270D	Anthracene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Anthracene. The RPD was reported as 21.1 and the upper control limit is 20.				
<b>3213457004</b>	6	SC-C7-02-5	SW846 8270D	Fluoranthene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as 59.5 and the control limits were 61 to 116.				
<b>3213457004</b>	7	SC-C7-02-5	SW846 8270D	Fluoranthene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as 152 and the control limits were 61 to 116.				
<b>3213457004</b>	8	SC-C7-02-5	SW846 8270D	Fluoranthene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Fluoranthene. The RPD was reported as 56.3 and the upper control limit is 21.				
<b>3213457004</b>	9	SC-C7-02-5	SW846 8270D	Pyrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Pyrene. The % Recovery was reported as 129 and the control limits were 60 to 114.				
<b>3213457004</b>	10	SC-C7-02-5	SW846 8270D	Pyrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Pyrene. The RPD was reported as 45.8 and the upper control limit is 20.				
<b>3213457004</b>	11	SC-C7-02-5	SW846 8270D	Benzo(a)anthracene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(a)anthracene. The RPD was reported as 32.7 and the upper control limit is 22.				
<b>3213457004</b>	12	SC-C7-02-5	SW846 8270D	Chrysene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Chrysene. The RPD was reported as 28.8 and the upper control limit is 20.				
<b>3213457004</b>	13	SC-C7-02-5	SW846 8270D	Benzo(k)fluoranthene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(k)fluoranthene. The RPD was reported as 27.9 and the upper control limit is 22.				

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<b>3213457004</b>	14	SC-C7-02-5	SW846 8270D	Benzo(a)pyrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(a)pyrene. The RPD was reported as 27.6 and the upper control limit is 24.				
<b>3213457004</b>	15	SC-C7-02-5	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457004</b>	16	SC-C7-02-5	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457004</b>	17	SC-C7-02-5	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457004</b>	18	SC-C7-02-5	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457004</b>	19	SC-C7-02-5	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457004</b>	20	SC-C7-02-5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457004</b>	21	SC-C7-02-5	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457004</b>	22	SC-C7-02-5	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457005</b>	1	SC-C7-03-6.6	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457005</b>	2	SC-C7-03-6.6	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
<b>3213457005</b>	3	SC-C7-03-6.6	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
<b>3213457005</b>	4	SC-C7-03-6.6	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
<b>3213457005</b>	5	SC-C7-03-6.6	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
<b>3213457005</b>	6	SC-C7-03-6.6	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
<b>3213457006</b>	1	SC-07-101	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				

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<b>3213457006</b>	2	SC-07-101	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
<b>3213457006</b>	3	SC-07-101	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
<b>3213457006</b>	4	SC-07-101	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 138 and the control limits were 70 to 130.				
<b>3213457006</b>	5	SC-07-101	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
<b>3213457006</b>	6	SC-07-101	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 129 and the control limits were 40 to 109.				
<b>3213457007</b>	1	SC-1-01-0.5	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457007</b>	2	SC-1-01-0.5	SW846 8260C	2-Hexanone
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60 and the control limits were 62 to 147.				
<b>3213457007</b>	3	SC-1-01-0.5	SW846 8260C	Chlorodibromomethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chlorodibromomethane. The % Recovery was reported as 58.2 and the control limits were 75 to 124.				
<b>3213457007</b>	4	SC-1-01-0.5	SW846 8260C	Chlorodibromomethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chlorodibromomethane. The % Recovery was reported as 51.3 and the control limits were 75 to 124.				
<b>3213457007</b>	5	SC-1-01-0.5	SW846 8260C	1,2-Dibromoethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromoethane. The % Recovery was reported as 55.5 and the control limits were 76 to 127.				
<b>3213457007</b>	6	SC-1-01-0.5	SW846 8260C	1,2-Dibromoethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromoethane. The % Recovery was reported as 50.9 and the control limits were 76 to 127.				
<b>3213457007</b>	7	SC-1-01-0.5	SW846 8260C	Tetrachloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 39.4 and the control limits were 58 to 137.				
<b>3213457007</b>	8	SC-1-01-0.5	SW846 8260C	Tetrachloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 41.7 and the control limits were 58 to 137.				
<b>3213457007</b>	9	SC-1-01-0.5	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457007</b>	10	SC-1-01-0.5	SW846 8260C	Chlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 46.7 and the control limits were 76 to 125.				
<b>3213457007</b>	11	SC-1-01-0.5	SW846 8260C	Chlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 44.6 and the control limits were 76 to 125.				

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<b>3213457007</b>	12	SC-1-01-0.5	SW846 8260C	Ethylbenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 48 and the control limits were 73 to 133.				
<b>3213457007</b>	13	SC-1-01-0.5	SW846 8260C	Ethylbenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 48 and the control limits were 73 to 133.				
<b>3213457007</b>	14	SC-1-01-0.5	SW846 8260C	mp-Xylene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte mp-Xylene. The % Recovery was reported as 46.7 and the control limits were 72 to 130.				
<b>3213457007</b>	15	SC-1-01-0.5	SW846 8260C	mp-Xylene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte mp-Xylene. The % Recovery was reported as 46.6 and the control limits were 72 to 130.				
<b>3213457007</b>	16	SC-1-01-0.5	SW846 8260C	Bromoform
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromoform. The % Recovery was reported as 53.2 and the control limits were 68 to 131.				
<b>3213457007</b>	17	SC-1-01-0.5	SW846 8260C	Bromoform
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Bromoform. The % Recovery was reported as 51 and the control limits were 68 to 131.				
<b>3213457007</b>	18	SC-1-01-0.5	SW846 8260C	Styrene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Styrene. The % Recovery was reported as 45.2 and the control limits were 77 to 130.				
<b>3213457007</b>	19	SC-1-01-0.5	SW846 8260C	Styrene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Styrene. The % Recovery was reported as 43.9 and the control limits were 77 to 130.				
<b>3213457007</b>	20	SC-1-01-0.5	SW846 8260C	1,1,2,2-Tetrachloroethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1,2,2-Tetrachloroethane. The % Recovery was reported as 55 and the control limits were 72 to 134.				
<b>3213457007</b>	21	SC-1-01-0.5	SW846 8260C	1,1,2,2-Tetrachloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1,2,2-Tetrachloroethane. The % Recovery was reported as 53.2 and the control limits were 72 to 134.				
<b>3213457007</b>	22	SC-1-01-0.5	SW846 8260C	o-Xylene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte o-Xylene. The % Recovery was reported as 44.5 and the control limits were 75 to 129.				
<b>3213457007</b>	23	SC-1-01-0.5	SW846 8260C	o-Xylene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte o-Xylene. The % Recovery was reported as 44 and the control limits were 75 to 129.				
<b>3213457007</b>	24	SC-1-01-0.5	SW846 8260C	Isopropylbenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 43.6 and the control limits were 71 to 137.				
<b>3213457007</b>	25	SC-1-01-0.5	SW846 8260C	Isopropylbenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 47.4 and the control limits were 71 to 137.				
<b>3213457007</b>	26	SC-1-01-0.5	SW846 8260C	1,3-Dichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,3-Dichlorobenzene. The % Recovery was reported as 34.3 and the control limits were 72 to 127.				

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<b>3213457007</b>	27	SC-1-01-0.5	SW846 8260C	1,3-Dichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,3-Dichlorobenzene. The % Recovery was reported as 36.8 and the control limits were 72 to 127.				
<b>3213457007</b>	28	SC-1-01-0.5	SW846 8260C	Total Xylenes
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as 45.9 and the control limits were 73 to 130.				
<b>3213457007</b>	29	SC-1-01-0.5	SW846 8260C	Total Xylenes
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as 45.7 and the control limits were 73 to 130.				
<b>3213457007</b>	30	SC-1-01-0.5	SW846 8260C	1,4-Dichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 35.8 and the control limits were 72 to 126.				
<b>3213457007</b>	31	SC-1-01-0.5	SW846 8260C	1,4-Dichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 35.7 and the control limits were 72 to 126.				
<b>3213457007</b>	32	SC-1-01-0.5	SW846 8260C	1,2-Dichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 34.2 and the control limits were 75 to 126.				
<b>3213457007</b>	33	SC-1-01-0.5	SW846 8260C	1,2-Dichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 35 and the control limits were 75 to 126.				
<b>3213457007</b>	34	SC-1-01-0.5	SW846 8260C	1,2-Dibromo-3-chloropropane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromo-3-chloropropane. The % Recovery was reported as 45.8 and the control limits were 52 to 151.				
<b>3213457007</b>	35	SC-1-01-0.5	SW846 8260C	1,2-Dibromo-3-chloropropane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dibromo-3-chloropropane. The % Recovery was reported as 43.5 and the control limits were 52 to 151.				
<b>3213457007</b>	36	SC-1-01-0.5	SW846 8260C	1,2,4-Trichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 21.2 and the control limits were 63 to 132.				
<b>3213457007</b>	37	SC-1-01-0.5	SW846 8260C	1,2,4-Trichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 23.8 and the control limits were 63 to 132.				
<b>3213457007</b>	38	SC-1-01-0.5	SW846 8260C	1,2,3-Trichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 19.2 and the control limits were 68 to 129.				
<b>3213457007</b>	39	SC-1-01-0.5	SW846 8260C	1,2,3-Trichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 21 and the control limits were 68 to 129.				
<b>3213457007</b>	40	SC-1-01-0.5	SW846 8260C	Methyl cyclohexane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 35.7 and the control limits were 70 to 130.				
<b>3213457007</b>	41	SC-1-01-0.5	SW846 8260C	Methyl cyclohexane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 46.3 and the control limits were 70 to 130.				

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<b>3213457007</b>	42	SC-1-01-0.5	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 69.7 and the control limits were 80 to 120.				
<b>3213457007</b>	43	SC-1-01-0.5	SW846 8260C	Dichlorodifluoromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 3.42 and the control limits were 16 to 152.				
<b>3213457007</b>	44	SC-1-01-0.5	SW846 8260C	Dichlorodifluoromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The RPD was reported as 170 and the upper control limit is 40.				
<b>3213457007</b>	45	SC-1-01-0.5	SW846 8260C	Chloromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chloromethane. The % Recovery was reported as 6.11 and the control limits were 44 to 139.				
<b>3213457007</b>	46	SC-1-01-0.5	SW846 8260C	Chloromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chloromethane. The RPD was reported as 153 and the upper control limit is 40.				
<b>3213457007</b>	47	SC-1-01-0.5	SW846 8260C	Vinyl Chloride
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Vinyl Chloride. The % Recovery was reported as 4.95 and the control limits were 53 to 141.				
<b>3213457007</b>	48	SC-1-01-0.5	SW846 8260C	Vinyl Chloride
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Vinyl Chloride. The % Recovery was reported as 50.9 and the control limits were 53 to 141.				
<b>3213457007</b>	49	SC-1-01-0.5	SW846 8260C	Vinyl Chloride
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Vinyl Chloride. The RPD was reported as 163 and the upper control limit is 40.				
<b>3213457007</b>	50	SC-1-01-0.5	SW846 8260C	Bromomethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromomethane. The % Recovery was reported as 16 and the control limits were 43 to 148.				
<b>3213457007</b>	51	SC-1-01-0.5	SW846 8260C	Bromomethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Bromomethane. The RPD was reported as 97.3 and the upper control limit is 40.				
<b>3213457007</b>	52	SC-1-01-0.5	SW846 8260C	Chloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chloroethane. The RPD was reported as 163 and the upper control limit is 40.				
<b>3213457007</b>	53	SC-1-01-0.5	SW846 8260C	Trichlorofluoromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 3.98 and the control limits were 40 to 130.				
<b>3213457007</b>	54	SC-1-01-0.5	SW846 8260C	Trichlorofluoromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Trichlorofluoromethane. The RPD was reported as 172 and the upper control limit is 40.				
<b>3213457007</b>	55	SC-1-01-0.5	SW846 8260C	1,1-Dichloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 53.9 and the control limits were 59 to 139.				
<b>3213457007</b>	56	SC-1-01-0.5	SW846 8260C	1,1-Dichloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 56.8 and the control limits were 59 to 139.				

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<b>3213457007</b>	57	SC-1-01-0.5	SW846 8260C	Methylene Chloride
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 57.8 and the control limits were 68 to 133.				
<b>3213457007</b>	58	SC-1-01-0.5	SW846 8260C	Methylene Chloride
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 55 and the control limits were 68 to 133.				
<b>3213457007</b>	59	SC-1-01-0.5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 113 and the control limits were 40 to 109.				
<b>3213457007</b>	60	SC-1-01-0.5	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 70.6 and the control limits were 80 to 120.				
<b>3213457007</b>	61	SC-1-01-0.5	SW846 8260C	trans-1,2-Dichloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 55.1 and the control limits were 66 to 133.				
<b>3213457007</b>	62	SC-1-01-0.5	SW846 8260C	trans-1,2-Dichloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 55.1 and the control limits were 66 to 133.				
<b>3213457007</b>	63	SC-1-01-0.5	SW846 8260C	Methyl t-Butyl Ether
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 56.9 and the control limits were 70 to 118.				
<b>3213457007</b>	64	SC-1-01-0.5	SW846 8260C	Methyl t-Butyl Ether
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 52.5 and the control limits were 70 to 118.				
<b>3213457007</b>	65	SC-1-01-0.5	SW846 8260C	1,1-Dichloroethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethane. The % Recovery was reported as 55.5 and the control limits were 74 to 131.				
<b>3213457007</b>	66	SC-1-01-0.5	SW846 8260C	1,1-Dichloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethane. The % Recovery was reported as 53.6 and the control limits were 74 to 131.				
<b>3213457007</b>	67	SC-1-01-0.5	SW846 8260C	cis-1,2-Dichloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte cis-1,2-Dichloroethene. The % Recovery was reported as 57.1 and the control limits were 75 to 128.				
<b>3213457007</b>	68	SC-1-01-0.5	SW846 8260C	cis-1,2-Dichloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte cis-1,2-Dichloroethene. The % Recovery was reported as 56.7 and the control limits were 75 to 128.				
<b>3213457007</b>	69	SC-1-01-0.5	SW846 8260C	Bromochloromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromochloromethane. The % Recovery was reported as 58.9 and the control limits were 71 to 120.				
<b>3213457007</b>	70	SC-1-01-0.5	SW846 8260C	Bromochloromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Bromochloromethane. The % Recovery was reported as 54.1 and the control limits were 71 to 120.				
<b>3213457007</b>	71	SC-1-01-0.5	SW846 8260C	Chloroform
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Chloroform. The % Recovery was reported as 54.1 and the control limits were 73 to 126.				

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<b>3213457007</b>	72	SC-1-01-0.5	SW846 8260C	Chloroform
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Chloroform. The % Recovery was reported as 52 and the control limits were 73 to 126.				
<b>3213457007</b>	73	SC-1-01-0.5	SW846 8260C	1,2-Dichloroethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dichloroethane. The % Recovery was reported as 58.7 and the control limits were 69 to 132.				
<b>3213457007</b>	74	SC-1-01-0.5	SW846 8260C	1,2-Dichloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dichloroethane. The % Recovery was reported as 53.6 and the control limits were 69 to 132.				
<b>3213457007</b>	75	SC-1-01-0.5	SW846 8260C	1,1,1-Trichloroethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1,1-Trichloroethane. The % Recovery was reported as 51.6 and the control limits were 68 to 131.				
<b>3213457007</b>	76	SC-1-01-0.5	SW846 8260C	1,1,1-Trichloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1,1-Trichloroethane. The % Recovery was reported as 52.2 and the control limits were 68 to 131.				
<b>3213457007</b>	77	SC-1-01-0.5	SW846 8260C	Cyclohexane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 42.6 and the control limits were 62 to 143.				
<b>3213457007</b>	78	SC-1-01-0.5	SW846 8260C	Cyclohexane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 48.8 and the control limits were 62 to 143.				
<b>3213457007</b>	79	SC-1-01-0.5	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.0 and the control limits were 80 to 120.				
<b>3213457007</b>	80	SC-1-01-0.5	SW846 8260C	Carbon Tetrachloride
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 51.4 and the control limits were 64 to 136.				
<b>3213457007</b>	81	SC-1-01-0.5	SW846 8260C	Carbon Tetrachloride
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 52.7 and the control limits were 64 to 136.				
<b>3213457007</b>	82	SC-1-01-0.5	SW846 8260C	Benzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Benzene. The % Recovery was reported as 54.2 and the control limits were 75 to 132.				
<b>3213457007</b>	83	SC-1-01-0.5	SW846 8260C	Benzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Benzene. The % Recovery was reported as 54.6 and the control limits were 75 to 132.				
<b>3213457007</b>	84	SC-1-01-0.5	SW846 8260C	1,2-Dichloropropane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2-Dichloropropane. The % Recovery was reported as 55 and the control limits were 78 to 131.				
<b>3213457007</b>	85	SC-1-01-0.5	SW846 8260C	1,2-Dichloropropane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2-Dichloropropane. The % Recovery was reported as 52.8 and the control limits were 78 to 131.				
<b>3213457007</b>	86	SC-1-01-0.5	SW846 8260C	Trichloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Trichloroethene. The % Recovery was reported as 49.9 and the control limits were 72 to 129.				

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<b>3213457007</b>	87	SC-1-01-0.5	SW846 8260C	Trichloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Trichloroethene. The % Recovery was reported as 50.7 and the control limits were 72 to 129.				
<b>3213457007</b>	88	SC-1-01-0.5	SW846 8260C	Bromodichloromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromodichloromethane. The % Recovery was reported as 57.1 and the control limits were 74 to 127.				
<b>3213457007</b>	89	SC-1-01-0.5	SW846 8260C	Bromodichloromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Bromodichloromethane. The % Recovery was reported as 53.5 and the control limits were 74 to 127.				
<b>3213457007</b>	90	SC-1-01-0.5	SW846 8260C	cis-1,3-Dichloropropene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 55.7 and the control limits were 76 to 123.				
<b>3213457007</b>	91	SC-1-01-0.5	SW846 8260C	cis-1,3-Dichloropropene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 50.2 and the control limits were 76 to 123.				
<b>3213457007</b>	92	SC-1-01-0.5	SW846 8260C	4-Methyl-2-Pentanone(MIBK)
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 4-Methyl-2-Pentanone(MIBK). The % Recovery was reported as 56.5 and the control limits were 64 to 143.				
<b>3213457007</b>	93	SC-1-01-0.5	SW846 8260C	trans-1,3-Dichloropropene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte trans-1,3-Dichloropropene. The % Recovery was reported as 60 and the control limits were 77 to 123.				
<b>3213457007</b>	94	SC-1-01-0.5	SW846 8260C	trans-1,3-Dichloropropene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte trans-1,3-Dichloropropene. The % Recovery was reported as 53.1 and the control limits were 77 to 123.				
<b>3213457007</b>	95	SC-1-01-0.5	SW846 8260C	1,1,2-Trichloroethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1,2-Trichloroethane. The % Recovery was reported as 60.4 and the control limits were 79 to 123.				
<b>3213457007</b>	96	SC-1-01-0.5	SW846 8260C	1,1,2-Trichloroethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1,2-Trichloroethane. The % Recovery was reported as 52.5 and the control limits were 79 to 123.				
<b>3213457007</b>	97	SC-1-01-0.5	SW846 8260C	Toluene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Toluene. The % Recovery was reported as 52.8 and the control limits were 73 to 129.				
<b>3213457007</b>	98	SC-1-01-0.5	SW846 8260C	Toluene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Toluene. The % Recovery was reported as 52.7 and the control limits were 73 to 129.				
<b>3213457007</b>	99	SC-1-01-0.5	SW846 8081B	Dieldrin
The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte Dieldrin. The % Recovery was reported as 61.3 and the control limits were 62 to 109.				
<b>3213457007</b>	100	SC-1-01-0.5	SW846 8081B	4,4'-DDE
The QC sample type MS for method SW846 8081B was outside the control limits for the analyte 4,4'-DDE. The % Recovery was reported as 38.9 and the control limits were 63 to 112.				
<b>3213457007</b>	101	SC-1-01-0.5	SW846 8081B	4,4'-DDE
The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte 4,4'-DDE. The % Recovery was reported as 30.2 and the control limits were 63 to 112.				

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<b>3213457007</b>	102	SC-1-01-0.5	SW846 8081B	4,4'-DDT
The QC sample type MS for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The % Recovery was reported as 9.05 and the control limits were 60 to 122.				
<b>3213457007</b>	103	SC-1-01-0.5	SW846 8081B	4,4'-DDT
The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The % Recovery was reported as 466 and the control limits were 60 to 122.				
<b>3213457007</b>	104	SC-1-01-0.5	SW846 8081B	4,4'-DDT
The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The RPD was reported as 132 and the upper control limit is 40.				
<b>3213457008</b>	1	SC-1-01-17	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457008</b>	2	SC-1-01-17	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457008</b>	3	SC-1-01-17	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457008</b>	4	SC-1-01-17	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457008</b>	5	SC-1-01-17	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457008</b>	6	SC-1-01-17	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457008</b>	7	SC-1-01-17	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457008</b>	8	SC-1-01-17	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457008</b>	9	SC-1-01-17	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457009</b>	1	SC-1-02-0.5	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457009</b>	2	SC-1-02-0.5	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457009</b>	3	SC-1-02-0.5	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457009</b>	4	SC-1-02-0.5	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				

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<b>3213457009</b>	5	SC-1-02-0.5	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457009</b>	6	SC-1-02-0.5	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457009</b>	7	SC-1-02-0.5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457009</b>	8	SC-1-02-0.5	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457009</b>	9	SC-1-02-0.5	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457010</b>	1	SC-1-02-4.3	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457010</b>	2	SC-1-02-4.3	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457010</b>	3	SC-1-02-4.3	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457010</b>	4	SC-1-02-4.3	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457010</b>	5	SC-1-02-4.3	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457010</b>	6	SC-1-02-4.3	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457010</b>	7	SC-1-02-4.3	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457010</b>	8	SC-1-02-4.3	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457010</b>	9	SC-1-02-4.3	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457011</b>	1	SC-1-03-0.5	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457011</b>	2	SC-1-03-0.5	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

<b>3213457011</b>	3	SC-1-03-0.5	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457011</b>	4	SC-1-03-0.5	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457011</b>	5	SC-1-03-0.5	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457011</b>	6	SC-1-03-0.5	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457011</b>	7	SC-1-03-0.5	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457011</b>	8	SC-1-03-0.5	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457011</b>	9	SC-1-03-0.5	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457012</b>	1	SC-1-03-4	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457012</b>	2	SC-1-03-4	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457012</b>	3	SC-1-03-4	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457012</b>	4	SC-1-03-4	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457012</b>	5	SC-1-03-4	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457012</b>	6	SC-1-03-4	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457012</b>	7	SC-1-03-4	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457012</b>	8	SC-1-03-4	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457012</b>	9	SC-1-03-4	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

<b>3213457013</b>	1	SC-1-101	S2540G-11	Total Solids
The total solids analysis by SM 2540G was conducted past the seven day sample holding time.				
<b>3213457013</b>	2	SC-1-101	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457013</b>	3	SC-1-101	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457013</b>	4	SC-1-101	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457013</b>	5	SC-1-101	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457013</b>	6	SC-1-101	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457013</b>	7	SC-1-101	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457013</b>	8	SC-1-101	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457013</b>	9	SC-1-101	SW846 8260C	Freon 113
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.				
<b>3213457014</b>	1	IA-CB-01 A	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457014</b>	2	IA-CB-01 A	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
<b>3213457015</b>	1	IA-CB-01 B	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457015</b>	2	IA-CB-01 B	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
<b>3213457016</b>	1	IA-CB-01 C	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457016</b>	2	IA-CB-01 C	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
<b>3213457017</b>	1	IA-CB-02 A	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457017</b>	2	IA-CB-02 A	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				

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## ANALYTICAL RESULTS

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<b>3213457018</b>	1	IA-CB-02 B	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457018</b>	2	IA-CB-02 B	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
<b>3213457019</b>	1	IA-CB-02 C	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 26% in the bracketing CCV.				
<b>3213457019</b>	2	IA-CB-02 C	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
<b>3213457026</b>	1	EB-SOIL-20211113	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 22% in the bracketing CCV.				
<b>3213457026</b>	2	EB-SOIL-20211113	SW846 8081B	4,4'-DDD
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 35% in the bracketing CCV.				
<b>3213457026</b>	3	EB-SOIL-20211113	SW846 8081B	4,4'-DDT
The QC sample type MS for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The % Recovery was reported as 57.7 and the control limits were 58 to 140.				
<b>3213457027</b>	1	EB-SOIL-20211116	SW846 8081B	Heptachlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 22% in the bracketing CCV.				
<b>3213457027</b>	2	EB-SOIL-20211116	SW846 8081B	4,4'-DDD
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 35% in the bracketing CCV.				
<b>3213457028</b>	1	SC-2-21-15	SW846 8260C	Cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.				
<b>3213457028</b>	2	SC-2-21-15	SW846 8260C	Carbon Tetrachloride
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.				
<b>3213457028</b>	3	SC-2-21-15	SW846 8260C	Tetrachloroethene
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.				
<b>3213457028</b>	4	SC-2-21-15	SW846 8260C	Methyl cyclohexane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.				
<b>3213457028</b>	5	SC-2-21-15	SW846 8260C	Dichlorodifluoromethane
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.				
<b>3213457028</b>	6	SC-2-21-15	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3213457028</b>	7	SC-2-21-15	SW846 8260C	Freon 113
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				

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## ANALYTICAL RESULTS

Workorder: 3213457 Caneel Bay USVI

**3213457028** 8 SC-2-21-15 SW846 8260C Freon 113  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.

**3213457029** 1 SC-2-22-18 SW846 8260C Cyclohexane  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 70.3 and the control limits were 80 to 120.

**3213457029** 2 SC-2-22-18 SW846 8260C Carbon Tetrachloride  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 78.7 and the control limits were 80 to 120.

**3213457029** 3 SC-2-22-18 SW846 8260C Tetrachloroethene  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Tetrachloroethene. The % Recovery was reported as 77.6 and the control limits were 80 to 120.

**3213457029** 4 SC-2-22-18 SW846 8260C Methyl cyclohexane  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 75.7 and the control limits were 80 to 120.

**3213457029** 5 SC-2-22-18 SW846 8260C Dichlorodifluoromethane  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 77.4 and the control limits were 80 to 120.

**3213457029** 6 SC-2-22-18 SW846 8260C Freon 113  
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.

**3213457029** 7 SC-2-22-18 SW846 8260C Freon 113  
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.

**3213457029** 8 SC-2-22-18 SW846 8260C Freon 113  
The QC sample type CCV for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 68.6 and the control limits were 80 to 120.

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## ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

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Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3213457001	SC-2-19-20	S2540G-11		
3213457001	SC-2-19-20	SW846 6020A	SW846 3051	
3213457001	SC-2-19-20	SW846 8260C	SW846 5035	
3213457001	SC-2-19-20	SW846 8270D	SW846 3546A	
3213457002	SC-2-20-15	S2540G-11		
3213457002	SC-2-20-15	SW846 6020A	SW846 3051	
3213457002	SC-2-20-15	SW846 8260C	SW846 5035	
3213457002	SC-2-20-15	SW846 8270D	SW846 3546A	
3213457003	SC-C7-01-5	S2540G-11		
3213457003	SC-C7-01-5	SW846 6020A	SW846 3051	
3213457003	SC-C7-01-5	SW846 8260C	SW846 5035	
3213457003	SC-C7-01-5	SW846 8270D	SW846 3546A	
3213457004	SC-C7-02-5	S2540G-11		
3213457004	SC-C7-02-5	SW846 6020A	SW846 3051	
3213457004	SC-C7-02-5	SW846 8260C	SW846 5035	
3213457004	SC-C7-02-5	SW846 8270D	SW846 3546A	
3213457005	SC-C7-03-6.6	S2540G-11		
3213457005	SC-C7-03-6.6	SW846 6020A	SW846 3051	
3213457005	SC-C7-03-6.6	SW846 8260C	SW846 5035	
3213457005	SC-C7-03-6.6	SW846 8270D	SW846 3546A	
3213457006	SC-07-101	S2540G-11		
3213457006	SC-07-101	SW846 6020A	SW846 3051	
3213457006	SC-07-101	SW846 8260C	SW846 5035	
3213457006	SC-07-101	SW846 8270D	SW846 3546A	
3213457007	SC-1-01-0.5	S2540G-11		
3213457007	SC-1-01-0.5	SW846 6020A	SW846 3051	
3213457007	SC-1-01-0.5	SW846 8081B	SW846 3546A	
3213457007	SC-1-01-0.5	SW846 8082A	SW846 3546A	
3213457007	SC-1-01-0.5	SW846 8260C	SW846 5035	
3213457007	SC-1-01-0.5	SW846 8270D	SW846 3546A	
3213457008	SC-1-01-17	S2540G-11		
3213457008	SC-1-01-17	SW846 6020A	SW846 3051	
3213457008	SC-1-01-17	SW846 8081B	SW846 3546A	
3213457008	SC-1-01-17	SW846 8082A	SW846 3546A	
3213457008	SC-1-01-17	SW846 8260C	SW846 5035	
3213457008	SC-1-01-17	SW846 8270D	SW846 3546A	
3213457009	SC-1-02-0.5	S2540G-11		
3213457009	SC-1-02-0.5	SW846 6020A	SW846 3051	
3213457009	SC-1-02-0.5	SW846 8081B	SW846 3546A	
3213457009	SC-1-02-0.5	SW846 8082A	SW846 3546A	
3213457009	SC-1-02-0.5	SW846 8260C	SW846 5035	
3213457009	SC-1-02-0.5	SW846 8270D	SW846 3546A	
3213457010	SC-1-02-4.3	S2540G-11		
3213457010	SC-1-02-4.3	SW846 6020A	SW846 3051	
3213457010	SC-1-02-4.3	SW846 8081B	SW846 3546A	
3213457010	SC-1-02-4.3	SW846 8082A	SW846 3546A	

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## ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3213457010	SC-1-02-4.3	SW846 8260C	SW846 5035	
3213457010	SC-1-02-4.3	SW846 8270D	SW846 3546A	
3213457011	SC-1-03-0.5	S2540G-11		
3213457011	SC-1-03-0.5	SW846 6020A	SW846 3051	
3213457011	SC-1-03-0.5	SW846 8081B	SW846 3546A	
3213457011	SC-1-03-0.5	SW846 8082A	SW846 3546A	
3213457011	SC-1-03-0.5	SW846 8260C	SW846 5035	
3213457011	SC-1-03-0.5	SW846 8270D	SW846 3546A	
3213457012	SC-1-03-4	S2540G-11		
3213457012	SC-1-03-4	SW846 6020A	SW846 3051	
3213457012	SC-1-03-4	SW846 8081B	SW846 3546A	
3213457012	SC-1-03-4	SW846 8082A	SW846 3546A	
3213457012	SC-1-03-4	SW846 8260C	SW846 5035	
3213457012	SC-1-03-4	SW846 8270D	SW846 3546A	
3213457013	SC-1-101	S2540G-11		
3213457013	SC-1-101	SW846 6020A	SW846 3051	
3213457013	SC-1-101	SW846 8081B	SW846 3546A	
3213457013	SC-1-101	SW846 8082A	SW846 3546A	
3213457013	SC-1-101	SW846 8260C	SW846 5035	
3213457013	SC-1-101	SW846 8270D	SW846 3546A	
3213457014	IA-CB-01 A	SW846 8081B	SW846 3546A	
3213457015	IA-CB-01 B	SW846 8081B	SW846 3546A	
3213457016	IA-CB-01 C	SW846 8081B	SW846 3546A	
3213457017	IA-CB-02 A	SW846 8081B	SW846 3546A	
3213457018	IA-CB-02 B	SW846 8081B	SW846 3546A	
3213457019	IA-CB-02 C	SW846 8081B	SW846 3546A	
3213457020	IA-Ref-03 A	SW846 6020A	SW846 3051	
3213457021	IA-Ref-03 B	SW846 6020A	SW846 3051	
3213457022	IA-Ref-03 C	SW846 6020A	SW846 3051	
3213457023	IA-Ref-04 A	SW846 6020A	SW846 3051	
3213457024	IA-Ref-04 B	SW846 6020A	SW846 3051	
3213457025	IA-Ref-04 C	SW846 6020A	SW846 3051	
3213457026	EB-SOIL-20211113	SW846 6020A	SW846 3015	
3213457026	EB-SOIL-20211113	SW846 8081B	SW846 3511	
3213457027	EB-SOIL-20211116	8270 SIM	SW846 3510C	
3213457027	EB-SOIL-20211116	SW846 6020A	SW846 3015	
3213457027	EB-SOIL-20211116	SW846 8081B	SW846 3511	
3213457027	EB-SOIL-20211116	SW846 8082A	SW846 3511	
3213457027	EB-SOIL-20211116	SW846 8260C		
3213457027	EB-SOIL-20211116	SW846 8270D	SW846 3510C	
3213457028	SC-2-21-15	S2540G-11		
3213457028	SC-2-21-15	SW846 6020A	SW846 3051	
3213457028	SC-2-21-15	SW846 8260C	SW846 5035	
3213457028	SC-2-21-15	SW846 8270D	SW846 3546A	
3213457029	SC-2-22-18	S2540G-11		
3213457029	SC-2-22-18	SW846 6020A	SW846 3051	

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**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3213457029	SC-2-22-18	SW846 8260C	SW846 5035	
3213457029	SC-2-22-18	SW846 8270D	SW846 3546A	
3213457030	TB-20211116	SW846 8260C		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** EXTR/67277 **Analysis Method:** SW846 8270D  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3213457026, 3213457027

### METHOD BLANK: 3425306

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	1.5
Acenaphthylene	ND	ug/L	1.5
Anthracene	ND	ug/L	1.5
Benzo(a)anthracene	ND	ug/L	1.5
Benzo(a)pyrene	ND	ug/L	1.5
Benzo(b)fluoranthene	ND	ug/L	1.5
Benzo(g,h,i)perylene	ND	ug/L	1.5
Benzo(k)fluoranthene	ND	ug/L	1.5
Chrysene	ND	ug/L	1.5
Dibenzo(a,h)anthracene	ND	ug/L	1.5
Fluoranthene	ND	ug/L	1.5
Fluorene	ND	ug/L	1.5
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.5
Naphthalene	ND	ug/L	1.5
Phenanthrene	ND	ug/L	1.5
Pyrene	ND	ug/L	1.5
2-Fluorobiphenyl (S)	78.8	%	24 - 116
Nitrobenzene-d5 (S)	93.1	%	32 - 125
Terphenyl-d14 (S)	99.9	%	41 - 145

### LABORATORY CONTROL SAMPLE: 3425307

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	73.7	ug/L	50	36.8	36 - 130
Acenaphthylene	78.6	ug/L	50	39.3	39 - 130
Anthracene	87.9	ug/L	50	43.9	48 - 133
Benzo(a)anthracene	96.5	ug/L	50	48.2	51 - 127
Benzo(a)pyrene	87.8	ug/L	50	43.9	53 - 127
Benzo(b)fluoranthene	90.1	ug/L	50	45.1	53 - 131
Benzo(g,h,i)perylene	93.7	ug/L	50	46.9	54 - 131
Benzo(k)fluoranthene	91.5	ug/L	50	45.7	52 - 130
Chrysene	97.3	ug/L	50	48.6	50 - 131
Dibenzo(a,h)anthracene	92.3	ug/L	50	46.2	56 - 130
Fluoranthene	92.3	ug/L	50	46.2	49 - 132
Fluorene	79.5	ug/L	50	39.7	42 - 131

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**QUALITY CONTROL DATA**Workorder: 3213457 Caneel Bay USVI

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Indeno(1,2,3-cd)pyrene	92	ug/L	50	46.0	55 - 126
Naphthalene	70.6	ug/L	50	35.3	21 - 123
Phenanthrene	90.6	ug/L	50	45.3	46 - 131
Pyrene	97.4	ug/L	50	48.7	48 - 134
2-Fluorobiphenyl (S)	78.9	%			24 - 116
Nitrobenzene-d5 (S)	85.6	%			32 - 125
Terphenyl-d14 (S)	94	%			41 - 145

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** EXTR/67278 **Analysis Method:** 8270 SIM  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3213457026, 3213457027

### METHOD BLANK: 3425308

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	0.10
Acenaphthylene	ND	ug/L	0.10
Anthracene	ND	ug/L	0.10
Benzo(a)anthracene	ND	ug/L	0.10
Benzo(a)pyrene	ND	ug/L	0.10
Benzo(b)fluoranthene	ND	ug/L	0.10
Benzo(g,h,i)perylene	ND	ug/L	0.10
Benzo(k)fluoranthene	ND	ug/L	0.10
Chrysene	ND	ug/L	0.10
Dibenzo(a,h)anthracene	ND	ug/L	0.070
Fluoranthene	ND	ug/L	0.10
Fluorene	ND	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10
Naphthalene	ND	ug/L	0.10
Phenanthrene	ND	ug/L	0.10
Pyrene	ND	ug/L	0.10
2-Methylnaphthalene-d10 (S)	75.6	%	29 - 112
Fluoranthene-d10 (S)	96.6	%	45 - 130

### LABORATORY CONTROL SAMPLE: 3425309

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	84.1	ug/L	1	0.84	46 - 121
Acenaphthylene	91	ug/L	1	0.91	49 - 122
Anthracene	85.2	ug/L	1	0.85	47 - 134
Benzo(a)anthracene	91	ug/L	1	0.91	51 - 141
Benzo(a)pyrene	81.4	ug/L	1	0.81	45 - 139
Benzo(b)fluoranthene	86.4	ug/L	1	0.86	48 - 147
Benzo(g,h,i)perylene	84.5	ug/L	1	0.84	43 - 153
Benzo(k)fluoranthene	85.8	ug/L	1	0.86	52 - 148
Chrysene	86	ug/L	1	0.86	52 - 144
Dibenzo(a,h)anthracene	90	ug/L	1	0.90	45 - 150
Fluoranthene	92.6	ug/L	1	0.93	51 - 149
Fluorene	88.7	ug/L	1	0.89	52 - 123
Indeno(1,2,3-cd)pyrene	91.6	ug/L	1	0.92	49 - 143

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**QUALITY CONTROL DATA**Workorder: 3213457 Caneel Bay USVI

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Naphthalene	79.1	ug/L	1	0.79	44 - 113
Phenanthrene	86	ug/L	1	0.86	50 - 128
Pyrene	93.3	ug/L	1	0.93	48 - 143
2-Methylnaphthalene-d10 (S)	92.5	%			29 - 112
Fluoranthene-d10 (S)	94	%			45 - 130

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67280

Analysis Method: SW846 8081B

QC Batch Method: SW846 3511

Associated Lab Samples: 3213457026, 3213457027

### METHOD BLANK: 3425432

Parameter	Blank Result	Units	Reporting Limit
Aldrin	ND	ug/L	0.020
beta-BHC	ND	ug/L	0.020
delta-BHC	ND	ug/L	0.020
gamma-BHC	ND	ug/L	0.020
alpha-Chlordane	ND	ug/L	0.020
gamma-Chlordane	ND	ug/L	0.020
4,4'-DDD	ND	ug/L	0.020
4,4'-DDE	ND	ug/L	0.020
4,4'-DDT	ND	ug/L	0.020
Dieldrin	ND	ug/L	0.020
Endosulfan I	ND	ug/L	0.020
Endosulfan II	ND	ug/L	0.020
Endosulfan Sulfate	ND	ug/L	0.020
Endrin	ND	ug/L	0.020
Endrin Aldehyde	ND	ug/L	0.020
Endrin Ketone	ND	ug/L	0.020
alpha-HCH (alpha-BHC)	ND	ug/L	0.020
Heptachlor	ND	ug/L	0.020
Heptachlor Epoxide	ND	ug/L	0.020
Methoxychlor	ND	ug/L	0.020
Toxaphene	ND	ug/L	1.0
Decachlorobiphenyl (S)	79	%	30 - 140
Decachlorobiphenyl. (S)	86.7	%	30 - 140
Tetrachloro-m-xylene (S)	49.2	%	30 - 123
Tetrachloro-m-xylene. (S)	51.8	%	30 - 123

### LABORATORY CONTROL SAMPLE: 3425433

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aldrin	76.2	ug/L	.5	0.38	45 - 121
beta-BHC	90.2	ug/L	.5	0.45	59 - 139
delta-BHC	98.7	ug/L	.5	0.49	59 - 141
gamma-BHC	105	ug/L	.5	0.52	58 - 138
alpha-Chlordane	94.5	ug/L	.5	0.47	62 - 131
gamma-Chlordane	95.3	ug/L	.5	0.48	60 - 129

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### QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

4,4'-DDD	127	ug/L	.5	0.64	58 - 142
4,4'-DDE	93.5	ug/L	.5	0.47	61 - 132
4,4'-DDT	76.6	ug/L	.5	0.38	58 - 140
Dieldrin	107	ug/L	.5	0.54	61 - 138
Endosulfan I	104	ug/L	.5	0.52	53 - 128
Endosulfan II	103	ug/L	.5	0.52	57 - 142
Endosulfan Sulfate	104	ug/L	.5	0.52	36 - 148
Endrin	106	ug/L	.5	0.53	58 - 143
Endrin Aldehyde	72.9	ug/L	.5	0.36	23 - 139
Endrin Ketone	107	ug/L	.5	0.54	51 - 139
alpha-HCH (alpha-BHC)	105	ug/L	.5	0.53	60 - 137
Heptachlor	82.3	ug/L	.5	0.41	41 - 124
Heptachlor Epoxide	102	ug/L	.5	0.51	62 - 131
Methoxychlor	84.3	ug/L	.5	0.42	56 - 140
Toxaphene		ug/L		ND	
Decachlorobiphenyl (S)	78.3	%			30 - 140
Decachlorobiphenyl. (S)	84.8	%			30 - 140
Tetrachloro-m-xylene (S)	49.6	%			30 - 123
Tetrachloro-m-xylene. (S)	51.7	%			30 - 123

MATRIX SPIKE SAMPLE: 3425434 ORIGINAL: 3213457026

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Aldrin	0	ug/L	.5	.30106	60.2	45 - 121
beta-BHC	0	ug/L	.5	.39011	78	59 - 139
delta-BHC	0	ug/L	.5	.42247	84.5	59 - 141
gamma-BHC	0	ug/L	.5	.47747	95.5	58 - 138
alpha-Chlordane	0	ug/L	.5	.41775	83.6	62 - 131
gamma-Chlordane	0	ug/L	.5	.41812	83.6	60 - 129
4,4'-DDD	0	ug/L	.5	.51171	102	58 - 142
4,4'-DDE	0	ug/L	.5	.40354	80.7	61 - 132
4,4'-DDT	0	ug/L	.5	.28866	57.7*	58 - 140
Dieldrin	0	ug/L	.5	.4623	92.5	61 - 138
Endosulfan I	0	ug/L	.5	.46306	92.6	53 - 128
Endosulfan II	0	ug/L	.5	.43155	86.3	57 - 142
Endosulfan Sulfate	0	ug/L	.5	.42596	85.2	36 - 148
Endrin	0	ug/L	.5	.41351	82.7	58 - 143
Endrin Aldehyde	0	ug/L	.5	.35269	70.5	23 - 139
Endrin Ketone	0	ug/L	.5	.42105	84.2	51 - 139
alpha-HCH (alpha-BHC)	0	ug/L	.5	.47292	94.6	60 - 137
Heptachlor	0	ug/L	.5	.31368	62.7	41 - 124
Heptachlor Epoxide	0	ug/L	.5	.44707	89.4	62 - 131
Methoxychlor	0	ug/L	.5	.28568	57.1	56 - 140

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**QUALITY CONTROL DATA**Workorder: 3213457 Caneel Bay USVI

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Decachlorobiphenyl (S)	58.6	%	30 - 140
Decachlorobiphenyl. (S)	63.1	%	30 - 140
Tetrachloro-m-xylene (S)	45.2	%	30 - 123
Tetrachloro-m-xylene. (S)	46.8	%	30 - 123

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67281

Analysis Method: SW846 8082A

QC Batch Method: SW846 3511

Associated Lab Samples: 3213457027

### METHOD BLANK: 3425435

Parameter	Blank Result	Units	Reporting Limit
Aroclor-1016	ND	ug/L	0.50
Aroclor-1221	ND	ug/L	0.50
Aroclor-1232	ND	ug/L	0.50
Aroclor-1242	ND	ug/L	0.50
Aroclor-1248	ND	ug/L	0.50
Aroclor-1254	ND	ug/L	0.50
Aroclor-1260	ND	ug/L	0.50
Aroclor-1262	ND	ug/L	0.50
Aroclor-1268	ND	ug/L	0.50
Decachlorobiphenyl (S)	69.8	%	30 - 140
Decachlorobiphenyl. (S)	70.3	%	30 - 140
Tetrachloro-m-xylene (S)	62.6	%	30 - 133
Tetrachloro-m-xylene. (S)	55.1	%	30 - 133

### LABORATORY CONTROL SAMPLE: 3425436

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aroclor-1016	90	ug/L	5	4.5	43 - 132
Aroclor-1221		ug/L		ND	
Aroclor-1232		ug/L		ND	
Aroclor-1242		ug/L		ND	
Aroclor-1248		ug/L		ND	
Aroclor-1254		ug/L		ND	
Aroclor-1260	97.5	ug/L	5	4.9	43 - 132
Aroclor-1262		ug/L		ND	
Aroclor-1268		ug/L		ND	
Decachlorobiphenyl (S)	66.9	%			30 - 140
Decachlorobiphenyl. (S)	66.7	%			30 - 140
Tetrachloro-m-xylene (S)	60.7	%			30 - 133
Tetrachloro-m-xylene. (S)	60.5	%			30 - 133

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

MATRIX SPIKE SAMPLE: 3425440 ORIGINAL: 3213457027

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Aroclor-1016	0	ug/L	5	5.06461	101	43 - 132
Aroclor-1260	0	ug/L	5	5.13636	103	43 - 132
Decachlorobiphenyl (S)	79.8	%				30 - 140
Decachlorobiphenyl. (S)	81	%				30 - 140
Tetrachloro-m-xylene (S)	64.6	%				30 - 133
Tetrachloro-m-xylene. (S)	64.9	%				30 - 133

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67299

Analysis Method: SW846 8081B

QC Batch Method: SW846 3546A

Associated Lab Samples: 3213457007, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012

### METHOD BLANK: 3426052

Parameter	Blank Result	Units	Reporting Limit
Aldrin	ND	ug/kg	1.7
beta-BHC	ND	ug/kg	1.7
delta-BHC	ND	ug/kg	1.7
gamma-BHC	ND	ug/kg	1.7
alpha-Chlordane	ND	ug/kg	1.7
gamma-Chlordane	ND	ug/kg	1.7
4,4'-DDD	ND	ug/kg	1.7
4,4'-DDE	ND	ug/kg	1.7
4,4'-DDT	ND	ug/kg	1.7
Dieldrin	ND	ug/kg	1.7
Endosulfan I	ND	ug/kg	1.7
Endosulfan II	ND	ug/kg	1.7
Endosulfan Sulfate	ND	ug/kg	1.7
Endrin	ND	ug/kg	1.7
Endrin Aldehyde	ND	ug/kg	1.7
Endrin Ketone	ND	ug/kg	1.7
alpha-HCH (alpha-BHC)	ND	ug/kg	1.7
Heptachlor	ND	ug/kg	1.7
Heptachlor Epoxide	ND	ug/kg	1.7
Methoxychlor	ND	ug/kg	3.3
Toxaphene	ND	ug/kg	35.0
Decachlorobiphenyl (S)	80.4	%	30 - 135
Decachlorobiphenyl. (S)	78.9	%	30 - 135
Tetrachloro-m-xylene (S)	81	%	30 - 111
Tetrachloro-m-xylene. (S)	74.1	%	30 - 111

### LABORATORY CONTROL SAMPLE: 3426053

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aldrin	83.5	ug/kg	33.3	27.8	58 - 103
beta-BHC	79.7	ug/kg	33.3	26.6	53 - 106
delta-BHC	90.5	ug/kg	33.3	30.2	60 - 103
gamma-BHC	89.9	ug/kg	33.3	30.0	59 - 102
alpha-Chlordane	79.5	ug/kg	33.3	26.5	62 - 98
gamma-Chlordane	81.6	ug/kg	33.3	27.2	58 - 103

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

4,4'-DDD	88.7	ug/kg	33.3	29.6	57 - 111
4,4'-DDE	94.3	ug/kg	33.3	31.4	63 - 112
4,4'-DDT	105	ug/kg	33.3	34.8	60 - 122
Dieldrin	83.5	ug/kg	33.3	27.8	62 - 109
Endosulfan I	77.9	ug/kg	33.3	26.0	57 - 98
Endosulfan II	77	ug/kg	33.3	25.7	59 - 112
Endosulfan Sulfate	75.7	ug/kg	33.3	25.2	27 - 96
Endrin	88.2	ug/kg	33.3	29.4	63 - 108
Endrin Aldehyde	68.5	ug/kg	33.3	22.8	21 - 92
Endrin Ketone	75.2	ug/kg	33.3	25.1	32 - 103
alpha-HCH (alpha-BHC)	90.6	ug/kg	33.3	30.2	57 - 105
Heptachlor	86.2	ug/kg	33.3	28.7	51 - 105
Heptachlor Epoxide	79.8	ug/kg	33.3	26.6	62 - 99
Methoxychlor	94	ug/kg	33.3	31.3	50 - 114
Toxaphene		ug/kg		ND	
Decachlorobiphenyl (S)	62.2	%			30 - 135
Decachlorobiphenyl. (S)	60.6	%			30 - 135
Tetrachloro-m-xylene (S)	78.7	%			30 - 111
Tetrachloro-m-xylene. (S)	69.8	%			30 - 111

MATRIX SPIKE: 3426059 DUPLICATE: 3426060 ORIGINAL: 3213457007

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Aldrin	0	ug/kg	33.1	22.9799	21.0301	69.4	66.5	58 - 103	8.86	40
beta-BHC	0	ug/kg	33.1	20.9247	19.0542	63.2	60.2	53 - 106	9.36	40
delta-BHC	0	ug/kg	33.1	24.1965	22.3773	73.1	70.7	60 - 103	7.81	40
gamma-BHC	0	ug/kg	33.1	23.8614	22.0741	72.1	69.8	59 - 102	7.78	40
alpha-Chlordane	0	ug/kg	33.1	21.9203	19.6325	66.2	62	62 - 98	11	40
gamma-Chlordane	0	ug/kg	33.1	21.6502	19.1315	65.4	60.5	58 - 103	12.4	40
4,4'-DDD	2.1006	ug/kg	33.1	25.9614	27.5309	72.1	80.4	57 - 111	5.87	40
4,4'-DDE	22.2707	ug/kg	33.1	35.1494	31.8164	38.9*	30.2*	63 - 112	9.95	40
4,4'-DDT	34.4834	ug/kg	33.1	37.4815	182.03	9.05*	466*	60 - 122	132	40
Dieldrin	1.8796	ug/kg	33.1	23.3107	21.2867	64.7	61.3*	62 - 109	9.08	40
Endosulfan I	0	ug/kg	33.1	20.1371	18.5392	60.8	58.6	57 - 98	8.26	40
Endosulfan II	0	ug/kg	33.1	21.132	19.2952	63.8	61	59 - 112	9.09	40
Endosulfan Sulfate	0	ug/kg	33.1	20.3454	17.4269	61.4	55.1	27 - 96	15.5	40
Endrin	0	ug/kg	33.1	25.1113	23.0352	75.8	72.8	63 - 108	8.62	40
Endrin Aldehyde	0	ug/kg	33.1	16.5754	14.5119	50.1	45.9	21 - 92	13.3	40
Endrin Ketone	0	ug/kg	33.1	20.837	17.8883	62.9	56.5	32 - 103	15.2	40
alpha-HCH (alpha-BHC)	0	ug/kg	33.1	23.5265	21.7642	71.1	68.8	57 - 105	7.78	40
Heptachlor	0	ug/kg	33.1	24.4196	23.0196	73.7	72.7	51 - 105	5.9	40
Heptachlor Epoxide	0	ug/kg	33.1	21.8679	20.1681	66	63.7	62 - 99	8.09	35
Methoxychlor	0	ug/kg	33.1	26.9891	22.2053	81.5	70.2	50 - 114	19.4	40

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**QUALITY CONTROL DATA**Workorder: 3213457 Caneel Bay USVI

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Decachlorobiphenyl (S)	53.6	%	53.6	44.7	30 - 135
Decachlorobiphenyl. (S)	58	%	58	49.7	30 - 135
Tetrachloro-m-xylene (S)	63.3	%	63.3	60.3	30 - 111
Tetrachloro-m-xylene. (S)	59.4	%	59.4	55.3	30 - 111

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67300

Analysis Method: SW846 8082A

QC Batch Method: SW846 3546A

Associated Lab Samples: 3213457007, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012

### METHOD BLANK: 3426055

Parameter	Blank Result	Units	Reporting Limit
Aroclor-1016	ND	mg/kg	0.033
Aroclor-1221	ND	mg/kg	0.033
Aroclor-1232	ND	mg/kg	0.033
Aroclor-1242	ND	mg/kg	0.033
Aroclor-1248	ND	mg/kg	0.033
Aroclor-1254	ND	mg/kg	0.033
Aroclor-1260	ND	mg/kg	0.033
Decachlorobiphenyl (S)	83	%	49 - 115
Decachlorobiphenyl. (S)			
Tetrachloro-m-xylene (S)	99.6	%	27 - 137
Tetrachloro-m-xylene. (S)			

### LABORATORY CONTROL SAMPLE: 3426056

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aroclor-1016	85.2	mg/kg	.33	0.28	43 - 132
Aroclor-1221		mg/kg		ND	
Aroclor-1232		mg/kg		ND	
Aroclor-1242		mg/kg		ND	
Aroclor-1248		mg/kg		ND	
Aroclor-1254		mg/kg		ND	
Aroclor-1260	90.9	mg/kg	.33	0.30	53 - 134
Decachlorobiphenyl (S)	86.8	%			49 - 115
Decachlorobiphenyl. (S)					
Tetrachloro-m-xylene (S)	91.7	%			27 - 137
Tetrachloro-m-xylene. (S)					

### MATRIX SPIKE: 3426061 DUPLICATE: 3426062 ORIGINAL: 3213457007

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Aroclor-1016	0	mg/kg	.32	.25405	.23442	78.2	74.5	43 - 132	8.04	40

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

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Aroclor-1260	0	mg/kg	.32	.24344	.22334	75	71	53 - 134	8.62	40
Decachlorobiphenyl (S)	75.9	%				75.9	72.4	49 - 115		
Tetrachloro-m-xylene (S)	86.1	%				86.1	79.8	27 - 137		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67302

Analysis Method: SW846 8270D

QC Batch Method: SW846 3546A

Associated Lab Samples: 3213457001, 3213457002, 3213457003, 3213457004, 3213457005, 3213457006, 3213457007, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012, 3213457013, 3213457028, 3213457029

### METHOD BLANK: 3426089

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/kg	50.0
Acenaphthylene	ND	ug/kg	50.0
Anthracene	ND	ug/kg	50.0
Benzo(a)anthracene	ND	ug/kg	50.0
Benzo(a)pyrene	ND	ug/kg	50.0
Benzo(b)fluoranthene	ND	ug/kg	50.0
Benzo(g,h,i)perylene	ND	ug/kg	50.0
Benzo(k)fluoranthene	ND	ug/kg	50.0
Chrysene	ND	ug/kg	50.0
Dibenzo(a,h)anthracene	ND	ug/kg	50.0
Fluoranthene	ND	ug/kg	50.0
Fluorene	ND	ug/kg	50.0
Indeno(1,2,3-cd)pyrene	ND	ug/kg	50.0
Naphthalene	ND	ug/kg	50.0
Phenanthrene	ND	ug/kg	50.0
Pyrene	ND	ug/kg	50.0
2,4,6-Tribromophenol (S)			
2-Fluorobiphenyl (S)	90.1	%	40 - 110
2-Fluorophenol (S)			
Nitrobenzene-d5 (S)	94.9	%	38 - 112
Phenol-d5 (S)			
Terphenyl-d14 (S)	107	%	45 - 126

### LABORATORY CONTROL SAMPLE: 3426090

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	83.9	ug/kg	3330	2800	59 - 115
Acenaphthylene	89.4	ug/kg	3330	2980	59 - 114
Anthracene	87.5	ug/kg	3330	2920	63 - 112
Benzo(a)anthracene	93.5	ug/kg	3330	3120	61 - 118
Benzo(a)pyrene	83	ug/kg	3330	2770	61 - 114
Benzo(b)fluoranthene	97.6	ug/kg	3330	3250	64 - 113
Benzo(g,h,i)perylene	98.6	ug/kg	3330	3290	61 - 118
Benzo(k)fluoranthene	95.7	ug/kg	3330	3190	62 - 113
Chrysene	89.8	ug/kg	3330	2990	63 - 111

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### QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Dibenzo(a,h)anthracene	88.5	ug/kg	3330	2950	64 - 117
Fluoranthene	92.9	ug/kg	3330	3100	61 - 116
Fluorene	86.6	ug/kg	3330	2890	61 - 112
Indeno(1,2,3-cd)pyrene	90.6	ug/kg	3330	3020	62 - 113
Naphthalene	79.2	ug/kg	3330	2640	56 - 105
Phenanthrene	85.6	ug/kg	3330	2850	62 - 109
Pyrene	88.6	ug/kg	3330	2950	60 - 114
2,4,6-Tribromophenol (S)					
2-Fluorobiphenyl (S)	82.1	%			40 - 110
2-Fluorophenol (S)					
Nitrobenzene-d5 (S)	86.1	%			38 - 112
Phenol-d5 (S)					
Terphenyl-d14 (S)	97.4	%			45 - 126

MATRIX SPIKE: 3426091 DUPLICATE: 3426092 ORIGINAL: 3213457004

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	149.115	ug/kg	3330	2796.48	3056.88	79.4	90.1	59 - 115	8.9	17
Acenaphthylene	0	ug/kg	3330	2918.52	2948.81	87.6	91.4	59 - 114	1.03	17
Anthracene	335.253	ug/kg	3330	2918.14	3605.47	77.5	101	63 - 112	21.1	20
Benzo(a)anthracene	723.345	ug/kg	3330	3261.81	4537.55	76.2	118	61 - 118	32.7	22
Benzo(a)pyrene	494.476	ug/kg	3330	2813.48	3712.59	69.6	99.8	61 - 114	27.6	24
Benzo(b)fluoranthene	514.973	ug/kg	3330	3371.53	4165.37	85.7	113	64 - 113	21.1	28
Benzo(g,h,i)perylene	308.718	ug/kg	3330	2986.38	3547.29	80.3	100	61 - 118	17.2	30
Benzo(k)fluoranthene	563.698	ug/kg	3330	3153.95	4178.06	77.7	112	62 - 113	27.9	22
Chrysene	634.961	ug/kg	3330	3067.2	4100.56	73	107	63 - 111	28.8	20
Dibenzo(a,h)anthracene	89.4624	ug/kg	3330	2700.73	2985.01	78.3	89.8	64 - 117	10	28
Fluoranthene	1741.15	ug/kg	3330	3725.82	6648.14	59.5*	152*	61 - 116	56.3	21
Fluorene	106.34	ug/kg	3330	2940.4	3203.68	85	96	61 - 112	8.57	16
Indeno(1,2,3-cd)pyrene	373.32	ug/kg	3330	2841.34	3524.88	74	97.7	62 - 113	21.5	30
Naphthalene	55.4254	ug/kg	3330	2710.23	2649.46	79.6	80.4	56 - 105	2.27	21
Phenanthrene	1273.24	ug/kg	3330	3264.6	5334.65	59.7*	126*	62 - 109	48.1	20
Pyrene	1243.15	ug/kg	3330	3387.17	5401.12	64.3	129*	60 - 114	45.8	20
2-Fluorobiphenyl (S)	80.4	%				80.4	82.3	40 - 110		
Nitrobenzene-d5 (S)	85.7	%				85.7	84.3	38 - 112		
Terphenyl-d14 (S)	99.5	%				99.5	106	45 - 126		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

MATRIX SPIKE: 3426093 DUPLICATE: 3426094 ORIGINAL: 3213457007

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	0	ug/kg	3250	2504.79	2622.8	77.1	79.2	59 - 115	4.6	17
Acenaphthylene	0	ug/kg	3250	2651.12	2766.82	81.7	83.6	59 - 114	4.27	17
Anthracene	0	ug/kg	3250	2633.25	2621.42	81.1	79.2	63 - 112	.45	20
Benzo(a)anthracene	0	ug/kg	3250	2817.38	2792.32	86.8	84.3	61 - 118	.89	22
Benzo(a)pyrene	0	ug/kg	3250	2453.53	2400.1	75.6	72.5	61 - 114	2.2	24
Benzo(b)fluoranthene	0	ug/kg	3250	2890.08	2854.75	89	86.2	64 - 113	1.23	28
Benzo(g,h,i)perylene	0	ug/kg	3250	2659.71	2616.18	81.9	79	61 - 118	1.65	30
Benzo(k)fluoranthene	0	ug/kg	3250	2858.96	2771.59	88.1	83.7	62 - 113	3.1	22
Chrysene	0	ug/kg	3250	2666.27	2637.42	82.1	79.7	63 - 111	1.09	20
Dibenzo(a,h)anthracene	0	ug/kg	3250	2530.67	2478.11	77.9	74.8	64 - 117	2.1	28
Fluoranthene	0	ug/kg	3250	2893.71	2868.47	89.1	86.6	61 - 116	.88	21
Fluorene	0	ug/kg	3250	2663.19	2740.65	82	82.8	61 - 112	2.87	16
Indeno(1,2,3-cd)pyrene	0	ug/kg	3250	2536.36	2489.98	78.1	75.2	62 - 113	1.85	30
Naphthalene	0	ug/kg	3250	2347.2	2543.16	72.3	76.8	56 - 105	8.01	21
Phenanthrene	0	ug/kg	3250	2607.03	2595.68	80.3	78.4	62 - 109	.44	20
Pyrene	0	ug/kg	3250	2743.56	2738.91	84.5	82.7	60 - 114	.17	20
2-Fluorobiphenyl (S)	73.3	%				73.3	76.2	40 - 110		
Nitrobenzene-d5 (S)	76.3	%				76.3	81.8	38 - 112		
Terphenyl-d14 (S)	95.1	%				95.1	93.2	45 - 126		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67322

Analysis Method: SW846 8081B

QC Batch Method: SW846 3546A

Associated Lab Samples: 3213457013

### METHOD BLANK: 3426997

Parameter	Blank Result	Units	Reporting Limit
Aldrin	ND	ug/kg	1.7
beta-BHC	ND	ug/kg	1.7
delta-BHC	ND	ug/kg	1.7
gamma-BHC	ND	ug/kg	1.7
alpha-Chlordane	ND	ug/kg	1.7
gamma-Chlordane	ND	ug/kg	1.7
4,4'-DDD	ND	ug/kg	1.7
4,4'-DDE	ND	ug/kg	1.7
4,4'-DDT	ND	ug/kg	1.7
Dieldrin	ND	ug/kg	1.7
Endosulfan I	ND	ug/kg	1.7
Endosulfan II	ND	ug/kg	1.7
Endosulfan Sulfate	ND	ug/kg	1.7
Endrin	ND	ug/kg	1.7
Endrin Aldehyde	ND	ug/kg	1.7
Endrin Ketone	ND	ug/kg	1.7
alpha-HCH (alpha-BHC)	ND	ug/kg	1.7
Heptachlor	ND	ug/kg	1.7
Heptachlor Epoxide	ND	ug/kg	1.7
Methoxychlor	ND	ug/kg	3.3
Toxaphene	ND	ug/kg	35.0
Decachlorobiphenyl (S)	59.8	%	30 - 135
Decachlorobiphenyl. (S)	58.5	%	30 - 135
Tetrachloro-m-xylene (S)	72.7	%	30 - 111
Tetrachloro-m-xylene. (S)	66.7	%	30 - 111

### LABORATORY CONTROL SAMPLE: 3426998

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aldrin	84.1	ug/kg	33.3	28.0	58 - 103
beta-BHC	78.2	ug/kg	33.3	26.1	53 - 106
delta-BHC	86.6	ug/kg	33.3	28.9	60 - 103
gamma-BHC	88.9	ug/kg	33.3	29.6	59 - 102
alpha-Chlordane	78.9	ug/kg	33.3	26.3	62 - 98
gamma-Chlordane	80	ug/kg	33.3	26.7	58 - 103

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

4,4'-DDD	86.6	ug/kg	33.3	28.9	57 - 111
4,4'-DDE	94.6	ug/kg	33.3	31.5	63 - 112
4,4'-DDT	86.6	ug/kg	33.3	28.9	60 - 122
Dieldrin	83.3	ug/kg	33.3	27.8	62 - 109
Endosulfan I	76.5	ug/kg	33.3	25.5	57 - 98
Endosulfan II	75.7	ug/kg	33.3	25.2	59 - 112
Endosulfan Sulfate	78.6	ug/kg	33.3	26.2	27 - 96
Endrin	83.7	ug/kg	33.3	27.9	63 - 108
Endrin Aldehyde	73.8	ug/kg	33.3	24.6	21 - 92
Endrin Ketone	72.3	ug/kg	33.3	24.1	32 - 103
alpha-HCH (alpha-BHC)	90.9	ug/kg	33.3	30.3	57 - 105
Heptachlor	77.2	ug/kg	33.3	25.7	51 - 105
Heptachlor Epoxide	79.9	ug/kg	33.3	26.6	62 - 99
Methoxychlor	81	ug/kg	33.3	27.0	50 - 114
Toxaphene		ug/kg		ND	
Decachlorobiphenyl (S)	59.4	%			30 - 135
Decachlorobiphenyl. (S)	61.5	%			30 - 135
Tetrachloro-m-xylene (S)	77	%			30 - 111
Tetrachloro-m-xylene. (S)	72.5	%			30 - 111

SAMPLE DUPLICATE: 3427000 ORIGINAL: 3213849005

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Aldrin	0	ug/kg	0	NC	40
beta-BHC	0	ug/kg	0	NC	40
delta-BHC	0	ug/kg	0	NC	40
gamma-BHC	0	ug/kg	0	NC	40
4,4'-DDD	0	ug/kg	0	NC	40
4,4'-DDE	0	ug/kg	0	NC	40
4,4'-DDT	0	ug/kg	0	NC	40
Dieldrin	0	ug/kg	0	NC	40
Endosulfan I	0	ug/kg	0	NC	40
Endosulfan II	0	ug/kg	0	NC	40
Endosulfan Sulfate	0	ug/kg	0	NC	40
Endrin	0	ug/kg	0	NC	40
Endrin Aldehyde	0	ug/kg	0	NC	40
Endrin Ketone	0	ug/kg	0	NC	40
alpha-HCH (alpha-BHC)	0	ug/kg	0	NC	40
Heptachlor	0	ug/kg	0	NC	40
Heptachlor Epoxide	0	ug/kg	0	NC	35
Methoxychlor	0	ug/kg	0	NC	40
Toxaphene	0	ug/kg	0	NC	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: EXTR/67323

Analysis Method: SW846 8082A

QC Batch Method: SW846 3546A

Associated Lab Samples: 3213457013

### METHOD BLANK: 3427001

Parameter	Blank Result	Units	Reporting Limit
Aroclor-1016	ND	mg/kg	0.033
Aroclor-1221	ND	mg/kg	0.033
Aroclor-1232	ND	mg/kg	0.033
Aroclor-1242	ND	mg/kg	0.033
Aroclor-1248	ND	mg/kg	0.033
Aroclor-1254	ND	mg/kg	0.033
Aroclor-1260	ND	mg/kg	0.033
Decachlorobiphenyl (S)	82	%	49 - 115
Decachlorobiphenyl. (S)			
Tetrachloro-m-xylene (S)	91.8	%	27 - 137
Tetrachloro-m-xylene. (S)			

### LABORATORY CONTROL SAMPLE: 3427002

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aroclor-1016	84	mg/kg	.33	0.28	43 - 132
Aroclor-1221		mg/kg		ND	
Aroclor-1232		mg/kg		ND	
Aroclor-1242		mg/kg		ND	
Aroclor-1248		mg/kg		ND	
Aroclor-1254		mg/kg		ND	
Aroclor-1260	88.2	mg/kg	.33	0.29	53 - 134
Decachlorobiphenyl (S)	88.2	%			49 - 115
Decachlorobiphenyl. (S)					
Tetrachloro-m-xylene (S)	103	%			27 - 137
Tetrachloro-m-xylene. (S)					

### SAMPLE DUPLICATE: 3427003 ORIGINAL: 3213849005

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Aroclor-1016	0	mg/kg	0	NC	40
Aroclor-1221	0	mg/kg	0	NC	40
Aroclor-1232	0	mg/kg	0	NC	40

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

Aroclor-1242	0	mg/kg	0	NC	40
Aroclor-1248	0	mg/kg	0	NC	40
Aroclor-1254	0	mg/kg	0	NC	40
Aroclor-1260	0	mg/kg	0	NC	40

MATRIX SPIKE SAMPLE: 3427004 ORIGINAL: 3213783001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Decachlorobiphenyl (S)	71	%				49 - 115
Tetrachloro-m-xylene (S)	80.6	%				27 - 137

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** EXTR/67391 **Analysis Method:** SW846 8081B

**QC Batch Method:** SW846 3546A

**Associated Lab Samples:** 3213457014, 3213457015, 3213457016, 3213457017, 3213457018, 3213457019

### METHOD BLANK: 3429155

Parameter	Blank Result	Units	Reporting Limit
Aldrin	ND	ug/kg	1.7
beta-BHC	ND	ug/kg	1.7
delta-BHC	ND	ug/kg	1.7
gamma-BHC	ND	ug/kg	1.7
alpha-Chlordane	ND	ug/kg	1.7
gamma-Chlordane	ND	ug/kg	1.7
4,4'-DDD	ND	ug/kg	1.7
4,4'-DDE	ND	ug/kg	1.7
4,4'-DDT	ND	ug/kg	1.7
Dieldrin	ND	ug/kg	1.7
Endosulfan I	ND	ug/kg	1.7
Endosulfan II	ND	ug/kg	1.7
Endosulfan Sulfate	ND	ug/kg	1.7
Endrin	ND	ug/kg	1.7
Endrin Aldehyde	ND	ug/kg	1.7
Endrin Ketone	ND	ug/kg	1.7
alpha-HCH (alpha-BHC)	ND	ug/kg	1.7
Heptachlor	ND	ug/kg	1.7
Heptachlor Epoxide	ND	ug/kg	1.7
Methoxychlor	ND	ug/kg	3.3
Toxaphene	ND	ug/kg	35.0
Decachlorobiphenyl (S)	92.6	%	30 - 135
Decachlorobiphenyl. (S)	95.5	%	30 - 135
Tetrachloro-m-xylene (S)	102	%	30 - 111
Tetrachloro-m-xylene. (S)	90.6	%	30 - 111

### LABORATORY CONTROL SAMPLE: 3429157

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aldrin	76	ug/kg	33.3	25.3	58 - 103
beta-BHC	92.5	ug/kg	33.3	30.8	53 - 106
delta-BHC	100	ug/kg	33.3	33.4	60 - 103
gamma-BHC	101	ug/kg	33.3	33.7	59 - 102
alpha-Chlordane	92.2	ug/kg	33.3	30.7	62 - 98
gamma-Chlordane	96	ug/kg	33.3	32.0	58 - 103

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

4,4'-DDD	110	ug/kg	33.3	36.6	57 - 111
4,4'-DDE	106	ug/kg	33.3	35.4	63 - 112
4,4'-DDT	94.4	ug/kg	33.3	31.5	60 - 122
Dieldrin	96.9	ug/kg	33.3	32.3	62 - 109
Endosulfan I	88.3	ug/kg	33.3	29.4	57 - 98
Endosulfan II	88.8	ug/kg	33.3	29.6	59 - 112
Endosulfan Sulfate	92.9	ug/kg	33.3	31.0	27 - 96
Endrin	96.3	ug/kg	33.3	32.1	63 - 108
Endrin Aldehyde	84.6	ug/kg	33.3	28.2	21 - 92
Endrin Ketone	88.7	ug/kg	33.3	29.6	32 - 103
alpha-HCH (alpha-BHC)	98.4	ug/kg	33.3	32.8	57 - 105
Heptachlor	101	ug/kg	33.3	33.6	51 - 105
Heptachlor Epoxide	90.3	ug/kg	33.3	30.1	62 - 99
Methoxychlor	98.6	ug/kg	33.3	32.9	50 - 114
Toxaphene		ug/kg		ND	
Decachlorobiphenyl (S)	85.9	%			30 - 135
Decachlorobiphenyl. (S)	90.8	%			30 - 135
Tetrachloro-m-xylene (S)	93	%			30 - 111
Tetrachloro-m-xylene. (S)	87.8	%			30 - 111

SAMPLE DUPLICATE: 3429174 ORIGINAL: 3213457018

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Aldrin	0	ug/kg	0	NC	40
beta-BHC	0	ug/kg	0	NC	40
delta-BHC	0	ug/kg	0	NC	40
gamma-BHC	0	ug/kg	0	NC	40
alpha-Chlordane	0	ug/kg	0	NC	40
gamma-Chlordane	0	ug/kg	0	NC	40
4,4'-DDD	0	ug/kg	0	NC	40
4,4'-DDE	0	ug/kg	0	NC	40
4,4'-DDT	0	ug/kg	0	NC	40
Dieldrin	0	ug/kg	0	NC	40
Endosulfan I	0	ug/kg	0	NC	40
Endosulfan II	0	ug/kg	0	NC	40
Endosulfan Sulfate	0	ug/kg	0	NC	40
Endrin	0	ug/kg	0	NC	40
Endrin Aldehyde	0	ug/kg	0	NC	40
Endrin Ketone	0	ug/kg	0	NC	40
alpha-HCH (alpha-BHC)	0	ug/kg	0	NC	40
Heptachlor	0	ug/kg	0	NC	40
Heptachlor Epoxide	0	ug/kg	0	NC	35
Methoxychlor	0	ug/kg	0	NC	40
Toxaphene	0	ug/kg	0	NC	40

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

SAMPLE DUPLICATE: 3429175 ORIGINAL: 3213457018

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Aldrin	0	ug/kg	0	NC	40
beta-BHC	0	ug/kg	0	NC	40
delta-BHC	0	ug/kg	0	NC	40
gamma-BHC	0	ug/kg	0	NC	40
alpha-Chlordane	0	ug/kg	0	NC	40
gamma-Chlordane	0	ug/kg	0	NC	40
4,4'-DDD	0	ug/kg	0	NC	40
4,4'-DDE	0	ug/kg	0	NC	40
4,4'-DDT	0	ug/kg	0	NC	40
Dieldrin	0	ug/kg	0	NC	40
Endosulfan I	0	ug/kg	0	NC	40
Endosulfan II	0	ug/kg	0	NC	40
Endosulfan Sulfate	0	ug/kg	0	NC	40
Endrin	0	ug/kg	0	NC	40
Endrin Aldehyde	0	ug/kg	0	NC	40
Endrin Ketone	0	ug/kg	0	NC	40
alpha-HCH (alpha-BHC)	0	ug/kg	0	NC	40
Heptachlor	0	ug/kg	0	NC	40
Heptachlor Epoxide	0	ug/kg	0	NC	35
Methoxychlor	0	ug/kg	0	NC	40
Toxaphene	0	ug/kg	0	NC	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** MDIG/92747 **Analysis Method:** SW846 6020A  
**QC Batch Method:** SW846 3051  
**Associated Lab Samples:** 3213457001, 3213457002, 3213457003, 3213457004

### METHOD BLANK: 3427816

Parameter	Blank Result	Units	Reporting Limit
Lead, Total	ND	mg/kg	1.0

### LABORATORY CONTROL SAMPLE: 3427818

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	112	mg/kg	20	22.4	80 - 120

### MATRIX SPIKE: 3427821 DUPLICATE: 3427822 ORIGINAL: 3213457004

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	1.10986	mg/kg	18.8	23.64493	23.23505	120	118	75 - 125	1.75	20

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** MDIG/92753**Analysis Method:** SW846 6020A**QC Batch Method:** SW846 3015**Associated Lab Samples:** 3213457026, 3213457027**METHOD BLANK: 3427853**

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/L	0.0033
Lead, Total	ND	mg/L	0.0022

**LABORATORY CONTROL SAMPLE: 3427854**

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	107	mg/L	.22	0.24	80 - 120
Lead, Total	105	mg/L	.22	0.23	80 - 120

**LABORATORY CONTROL SAMPLE: 3427855**

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	110	mg/L	.22	0.24	80 - 120
Lead, Total	102	mg/L	.22	0.23	80 - 120

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: MDIG/92770

Analysis Method: SW846 6020A

QC Batch Method: SW846 3051

Associated Lab Samples: 3213457005, 3213457006, 3213457007, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012, 3213457013, 3213457028, 3213457029

METHOD BLANK: 3428482

Parameter	Blank Result	Units	Reporting Limit
Lead, Total	ND	mg/kg	1.0

LABORATORY CONTROL SAMPLE: 3428483

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	102	mg/kg	20	20.3	80 - 120

MATRIX SPIKE: 3428484 DUPLICATE: 3428485 ORIGINAL: 3213457007

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	20.29191	mg/kg	17.4	37.29991	41.51097	98	116	75 - 125	10.7	20

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: MDIG/92864

Analysis Method: SW846 6020A

QC Batch Method: SW846 3051

Associated Lab Samples: 3213457020, 3213457021, 3213457022, 3213457023, 3213457024, 3213457025

### METHOD BLANK: 3431958

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/kg	1.5

### LABORATORY CONTROL SAMPLE: 3431959

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	97	mg/kg	20	19.4	80 - 120

### MATRIX SPIKE: 3431960 DUPLICATE: 3431961 ORIGINAL: 3213457021

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic, Total	2.42116	mg/kg	19.9	19.37276	18.24607	85.3	80.5	75 - 125	5.99	20

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** VOMS/61904 **Analysis Method:** SW846 8260C

**QC Batch Method:** SW846 5035

**Associated Lab Samples:** 3213457001, 3213457002, 3213457003, 3213457005, 3213457006

METHOD BLANK: 3425429

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/kg	10.0
Benzene	ND	ug/kg	2.0
Bromochloromethane	ND	ug/kg	2.0
Bromodichloromethane	ND	ug/kg	2.0
Bromoform	ND	ug/kg	2.0
Bromomethane	ND	ug/kg	2.0
2-Butanone	ND	ug/kg	10.0
Carbon Disulfide	ND	ug/kg	2.0
Carbon Tetrachloride	ND	ug/kg	2.0
Chlorobenzene	ND	ug/kg	2.0
Chlorodibromomethane	ND	ug/kg	2.0
Chloroethane	ND	ug/kg	5.0
Chloroform	ND	ug/kg	2.0
Chloromethane	ND	ug/kg	2.0
Cyclohexane	ND	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.0
1,2-Dibromoethane	ND	ug/kg	2.0
1,2-Dichlorobenzene	ND	ug/kg	2.0
1,3-Dichlorobenzene	ND	ug/kg	2.0
1,4-Dichlorobenzene	ND	ug/kg	2.0
Dichlorodifluoromethane	ND	ug/kg	2.0
1,1-Dichloroethane	ND	ug/kg	2.0
1,2-Dichloroethane	ND	ug/kg	2.0
1,1-Dichloroethene	ND	ug/kg	2.0
cis-1,2-Dichloroethene	ND	ug/kg	2.0
trans-1,2-Dichloroethene	ND	ug/kg	2.0
1,2-Dichloropropane	ND	ug/kg	2.0
cis-1,3-Dichloropropene	ND	ug/kg	2.0
trans-1,3-Dichloropropene	ND	ug/kg	2.0
Ethylbenzene	ND	ug/kg	2.0
Freon 113	ND	ug/kg	2.0
2-Hexanone	ND	ug/kg	10.0
Isopropylbenzene	ND	ug/kg	2.0
Methyl acetate	ND	ug/kg	2.0
Methyl cyclohexane	ND	ug/kg	2.0
Methyl t-Butyl Ether	ND	ug/kg	2.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.0

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Methylene Chloride	ND	ug/kg	2.0
Styrene	ND	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.0
Tetrachloroethene	ND	ug/kg	2.0
Toluene	ND	ug/kg	2.0
Total Xylenes	ND	ug/kg	6.0
1,2,3-Trichlorobenzene	ND	ug/kg	5.0
1,2,4-Trichlorobenzene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	2.0
1,1,2-Trichloroethane	ND	ug/kg	2.0
Trichloroethene	ND	ug/kg	2.0
Trichlorofluoromethane	ND	ug/kg	2.0
Vinyl Chloride	ND	ug/kg	2.0
o-Xylene	ND	ug/kg	2.0
mp-Xylene	ND	ug/kg	4.0
1,2-Dichloroethane-d4 (S)	98.4	%	56 - 124
4-Bromofluorobenzene (S)	120	%	51 - 128
Dibromofluoromethane (S)	114	%	62 - 123
Toluene-d8 (S)	114	%	59 - 131

LABORATORY CONTROL SAMPLE: 3425430 DUPLICATE: 3425431

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Acetone	122	ug/kg	100	122	116	116	58 - 146	4.25	40
Benzene	117	ug/kg	20	23.4	22.2	111	75 - 132	4.94	40
Bromochloromethane	114	ug/kg	20	22.8	22.1	111	71 - 120	3.12	40
Bromodichloromethane	115	ug/kg	20	23.1	22.5	112	74 - 127	2.51	40
Bromoform	105	ug/kg	20	21.0	20.6	103	68 - 131	1.93	40
Bromomethane	101	ug/kg	20	20.2	17.8	88.9	43 - 148	12.6	40
2-Butanone	119	ug/kg	100	119	120	120	64 - 148	.8	40
Carbon Disulfide	127	ug/kg	20	25.3	23.8	119	47 - 144	6.27	40
Carbon Tetrachloride	114	ug/kg	20	22.7	22.1	111	64 - 136	2.61	40
Chlorobenzene	110	ug/kg	20	22.0	20.8	104	76 - 125	5.77	40
Chlorodibromomethane	112	ug/kg	20	22.4	21.4	107	75 - 124	4.18	40
Chloroethane	106	ug/kg	20	21.3	20.0	100	1 - 141	6.12	40
Chloroform	109	ug/kg	20	21.9	21.1	105	73 - 126	3.83	40
Chloromethane	99.2	ug/kg	20	19.8	18.5	92.5	44 - 139	6.98	40
Cyclohexane	135	ug/kg	20	27.0	25.0	125	62 - 143	7.91	40
1,2-Dibromo-3-chloropropane	95.7	ug/kg	20	19.1	18.5	92.3	52 - 151	3.65	40
1,2-Dibromoethane	113	ug/kg	20	22.6	21.5	108	76 - 127	5.04	40
1,2-Dichlorobenzene	108	ug/kg	20	21.6	21.1	105	75 - 126	2.16	40
1,3-Dichlorobenzene	110	ug/kg	20	22.0	20.7	103	72 - 127	6.44	40
1,4-Dichlorobenzene	107	ug/kg	20	21.4	20.3	102	72 - 126	5.01	40
Dichlorodifluoromethane	99.5	ug/kg	20	19.9	18.4	91.9	16 - 152	7.9	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

1,1-Dichloroethane	115	ug/kg	20	22.9	21.7	109	74 - 131	5.36	40
1,2-Dichloroethane	113	ug/kg	20	22.6	21.9	109	69 - 132	3.2	40
1,1-Dichloroethene	130	ug/kg	20	26.0	24.0	120	59 - 139	7.91	40
cis-1,2-Dichloroethene	116	ug/kg	20	23.3	22.6	113	75 - 128	3.04	40
trans-1,2-Dichloroethene	119	ug/kg	20	23.8	22.8	114	66 - 133	4.5	40
1,2-Dichloropropane	114	ug/kg	20	22.9	22.2	111	78 - 131	3.15	40
cis-1,3-Dichloropropene	114	ug/kg	20	22.9	21.4	107	76 - 123	6.83	40
trans-1,3-Dichloropropene	113	ug/kg	20	22.5	21.9	109	77 - 123	2.99	40
Ethylbenzene	116	ug/kg	20	23.2	21.2	106	73 - 133	9.27	40
Freon 113	144*	ug/kg	20	28.9	25.9	129*	40 - 109	11	40
2-Hexanone	104	ug/kg	100	104	104	104	62 - 147	.21	40
Isopropylbenzene	116	ug/kg	20	23.2	21.8	109	71 - 137	6.26	40
Methyl acetate	142*	ug/kg	20	28.4	27.7	138*	70 - 130	2.81	40
Methyl cyclohexane	136*	ug/kg	20	27.3	24.4	122	70 - 130	11.3	40
Methyl t-Butyl Ether	118	ug/kg	20	23.6	23.2	116	70 - 118	1.84	40
4-Methyl-2-Pentanone(MIBK)	93.5	ug/kg	100	93.5	92.9	92.9	64 - 143	.67	40
Methylene Chloride	113	ug/kg	20	22.7	22.0	110	68 - 133	3.07	40
Styrene	98.2	ug/kg	20	19.6	18.7	93.5	77 - 130	4.91	40
1,1,2,2-Tetrachloroethane	104	ug/kg	20	20.8	21.0	105	72 - 134	1.16	40
Tetrachloroethene	109	ug/kg	20	21.8	20.2	101	58 - 137	7.82	40
Toluene	114	ug/kg	20	22.8	20.9	105	73 - 129	8.35	40
Total Xylenes	116	ug/kg	60	69.6	64.5	107	73 - 130	7.59	40
1,2,3-Trichlorobenzene	118	ug/kg	20	23.5	23.0	115	68 - 129	2.35	40
1,2,4-Trichlorobenzene	120	ug/kg	20	24.1	22.5	112	63 - 132	6.95	40
1,1,1-Trichloroethane	120	ug/kg	20	24.0	22.1	111	68 - 131	8.29	40
1,1,2-Trichloroethane	110	ug/kg	20	22.0	21.1	105	79 - 123	4.17	40
Trichloroethene	111	ug/kg	20	22.3	21.2	106	72 - 129	5.2	40
Trichlorofluoromethane	107	ug/kg	20	21.3	19.8	98.8	40 - 130	7.6	40
Vinyl Chloride	104	ug/kg	20	20.9	19.3	96.3	53 - 141	8.05	40
o-Xylene	116	ug/kg	20	23.2	21.9	110	75 - 129	5.65	40
mp-Xylene	116	ug/kg	40	46.4	42.6	106	72 - 130	8.57	40
1,2-Dichloroethane-d4 (S)	106	%			106		56 - 124		
4-Bromofluorobenzene (S)	119	%			119		51 - 128		
Dibromofluoromethane (S)	110	%			110		62 - 123		
Toluene-d8 (S)	112	%			112		59 - 131		

MATRIX SPIKE SAMPLE: 3425594 ORIGINAL: 3212409018

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Acetone	20.5669	ug/kg	94	137.664	125	58 - 146
Benzene	0	ug/kg	18.8	18.1287	96.4	75 - 132
Bromochloromethane	0	ug/kg	18.8	18.7457	99.7	71 - 120

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Bromodichloromethane	0	ug/kg	18.8	18.9657	101	74 - 127
Bromoform	0	ug/kg	18.8	16.0802	85.5	68 - 131
Bromomethane	0	ug/kg	18.8	14.6695	78	43 - 148
2-Butanone	0	ug/kg	94	109.61	117	64 - 148
Carbon Disulfide	0	ug/kg	18.8	19.6254	104	47 - 144
Carbon Tetrachloride	0	ug/kg	18.8	20.4255	109	64 - 136
Chlorobenzene	0	ug/kg	18.8	15.6925	83.5	76 - 125
Chlorodibromomethane	0	ug/kg	18.8	17.1887	91.4	75 - 124
Chloroethane	0	ug/kg	18.8	15.4776	82.3	1 - 141
Chloroform	0	ug/kg	18.8	17.433	92.7	73 - 126
Chloromethane	0	ug/kg	18.8	14.4009	76.6	44 - 139
Cyclohexane	0	ug/kg	18.8	20.0627	107	62 - 143
1,2-Dibromo-3-chloropropane	0	ug/kg	18.8	14.4922	77.1	52 - 151
1,2-Dibromoethane	0	ug/kg	18.8	16.7036	88.9	76 - 127
1,2-Dichlorobenzene	0	ug/kg	18.8	13.9893	74.4*	75 - 126
1,3-Dichlorobenzene	0	ug/kg	18.8	13.8216	73.5	72 - 127
1,4-Dichlorobenzene	0	ug/kg	18.8	13.2505	70.5*	72 - 126
Dichlorodifluoromethane	0	ug/kg	18.8	15.5337	82.6	16 - 152
1,1-Dichloroethane	0	ug/kg	18.8	17.8603	95	74 - 131
1,2-Dichloroethane	0	ug/kg	18.8	18.676	99.4	69 - 132
1,1-Dichloroethene	0	ug/kg	18.8	20.4328	109	59 - 139
cis-1,2-Dichloroethene	0	ug/kg	18.8	18.4017	97.9	75 - 128
trans-1,2-Dichloroethene	0	ug/kg	18.8	18.4989	98.4	66 - 133
1,2-Dichloropropane	0	ug/kg	18.8	18.4725	98.3	78 - 131
cis-1,3-Dichloropropene	0	ug/kg	18.8	16.8902	89.9	76 - 123
trans-1,3-Dichloropropene	0	ug/kg	18.8	17.0718	90.8	77 - 123
Ethylbenzene	0	ug/kg	18.8	16.3161	86.8	73 - 133
Freon 113	0	ug/kg	18.8	21.328	113*	40 - 109
2-Hexanone	0	ug/kg	94	87.0508	92.6	62 - 147
Isopropylbenzene	0	ug/kg	18.8	15.3375	81.6	71 - 137
Methyl acetate	0	ug/kg	18.8	46.4968	247*	70 - 130
Methyl cyclohexane	0	ug/kg	18.8	18.3213	97.5	70 - 130
Methyl t-Butyl Ether	0	ug/kg	18.8	19.2361	102	70 - 118
4-Methyl-2-Pentanone(MIBK)	0	ug/kg	94	75.8234	80.7	64 - 143
Methylene Chloride	0	ug/kg	18.8	18.5169	98.5	68 - 133
Styrene	0	ug/kg	18.8	13.63	72.5*	77 - 130
1,1,2,2-Tetrachloroethane	0	ug/kg	18.8	16.4222	87.4	72 - 134
Tetrachloroethene	0	ug/kg	18.8	16.1911	86.1	58 - 137
Toluene	0	ug/kg	18.8	16.692	88.8	73 - 129
Total Xylenes	0	ug/kg	56.4	47.6952	84.6	73 - 130
1,2,3-Trichlorobenzene	0	ug/kg	18.8	11.2032	59.6*	68 - 129
1,2,4-Trichlorobenzene	0	ug/kg	18.8	11.5985	61.7*	63 - 132
1,1,1-Trichloroethane	0	ug/kg	18.8	18.3361	97.5	68 - 131
1,1,2-Trichloroethane	0	ug/kg	18.8	17.1883	91.4	79 - 123
Trichloroethene	0	ug/kg	18.8	17.8474	94.9	72 - 129
Trichlorofluoromethane	0	ug/kg	18.8	16.0084	85.2	40 - 130

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

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Vinyl Chloride	0	ug/kg	18.8	15.6978	83.5	53 - 141
o-Xylene	0	ug/kg	18.8	15.7807	84	75 - 129
mp-Xylene	0	ug/kg	37.6	31.9145	84.9	72 - 130
1,2-Dichloroethane-d4 (S)	78.4	%				56 - 124
4-Bromofluorobenzene (S)	88.4	%				51 - 128
Dibromofluoromethane (S)	81	%				62 - 123
Toluene-d8 (S)	75.6	%				59 - 131

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: VOMS/61923

Analysis Method: SW846 8260C

QC Batch Method: SW846 5035

Associated Lab Samples: 3213457004, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012, 3213457013, 3213457028, 3213457029

### METHOD BLANK: 3425807

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/kg	10.0
Benzene	ND	ug/kg	2.0
Bromochloromethane	ND	ug/kg	2.0
Bromodichloromethane	ND	ug/kg	2.0
Bromoform	ND	ug/kg	2.0
Bromomethane	ND	ug/kg	2.0
2-Butanone	ND	ug/kg	10.0
Carbon Disulfide	ND	ug/kg	2.0
Carbon Tetrachloride	ND	ug/kg	2.0
Chlorobenzene	ND	ug/kg	2.0
Chlorodibromomethane	ND	ug/kg	2.0
Chloroethane	ND	ug/kg	5.0
Chloroform	ND	ug/kg	2.0
Chloromethane	ND	ug/kg	2.0
Cyclohexane	ND	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.0
1,2-Dibromoethane	ND	ug/kg	2.0
1,2-Dichlorobenzene	ND	ug/kg	2.0
1,3-Dichlorobenzene	ND	ug/kg	2.0
1,4-Dichlorobenzene	ND	ug/kg	2.0
Dichlorodifluoromethane	ND	ug/kg	2.0
1,1-Dichloroethane	ND	ug/kg	2.0
1,2-Dichloroethane	ND	ug/kg	2.0
1,1-Dichloroethene	ND	ug/kg	2.0
cis-1,2-Dichloroethene	ND	ug/kg	2.0
trans-1,2-Dichloroethene	ND	ug/kg	2.0
1,2-Dichloropropane	ND	ug/kg	2.0
cis-1,3-Dichloropropene	ND	ug/kg	2.0
trans-1,3-Dichloropropene	ND	ug/kg	2.0
Ethylbenzene	ND	ug/kg	2.0
Freon 113	ND	ug/kg	2.0
2-Hexanone	ND	ug/kg	10.0
Isopropylbenzene	ND	ug/kg	2.0
Methyl acetate	ND	ug/kg	2.0
Methyl cyclohexane	ND	ug/kg	2.0
Methyl t-Butyl Ether	ND	ug/kg	2.0

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.0
Methylene Chloride	ND	ug/kg	2.0
Styrene	ND	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.0
Tetrachloroethene	ND	ug/kg	2.0
Toluene	ND	ug/kg	2.0
Total Xylenes	ND	ug/kg	6.0
1,2,3-Trichlorobenzene	ND	ug/kg	5.0
1,2,4-Trichlorobenzene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	2.0
1,1,2-Trichloroethane	ND	ug/kg	2.0
Trichloroethene	ND	ug/kg	2.0
Trichlorofluoromethane	ND	ug/kg	2.0
Vinyl Chloride	ND	ug/kg	2.0
o-Xylene	ND	ug/kg	2.0
mp-Xylene	ND	ug/kg	4.0
1,2-Dichloroethane-d4 (S)	93.1	%	56 - 124
4-Bromofluorobenzene (S)	103	%	51 - 128
Dibromofluoromethane (S)	102	%	62 - 123
Toluene-d8 (S)	107	%	59 - 131

LABORATORY CONTROL SAMPLE: 3425808 DUPLICATE: 3425809

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Acetone	127	ug/kg	100	127	122	122	58 - 146	4.26	40
Benzene	103	ug/kg	20	20.6	20.9	104	75 - 132	1.3	40
Bromochloromethane	102	ug/kg	20	20.5	20.6	103	71 - 120	.95	40
Bromodichloromethane	102	ug/kg	20	20.3	20.6	103	74 - 127	1.2	40
Bromoform	106	ug/kg	20	21.3	21.3	107	68 - 131	.21	40
Bromomethane	93.9	ug/kg	20	18.8	17.9	89.4	43 - 148	4.83	40
2-Butanone	123	ug/kg	100	123	118	118	64 - 148	3.69	40
Carbon Disulfide	108	ug/kg	20	21.6	21.6	108	47 - 144	.39	40
Carbon Tetrachloride	101	ug/kg	20	20.2	20.4	102	64 - 136	.86	40
Chlorobenzene	100	ug/kg	20	20.1	20.9	104	76 - 125	3.93	40
Chlorodibromomethane	104	ug/kg	20	20.7	21.8	109	75 - 124	5.17	40
Chloroethane	90.4	ug/kg	20	18.1	18.0	89.8	1 - 141	.71	40
Chloroform	97.8	ug/kg	20	19.6	19.6	98.1	73 - 126	.25	40
Chloromethane	83.7	ug/kg	20	16.7	16.5	82.4	44 - 139	1.47	40
Cyclohexane	105	ug/kg	20	21.0	20.8	104	62 - 143	.95	40
1,2-Dibromo-3-chloropropane	106	ug/kg	20	21.2	21.3	107	52 - 151	.39	40
1,2-Dibromoethane	105	ug/kg	20	20.9	21.3	107	76 - 127	1.99	40
1,2-Dichlorobenzene	106	ug/kg	20	21.1	21.4	107	75 - 126	1.53	40
1,3-Dichlorobenzene	108	ug/kg	20	21.5	22.0	110	72 - 127	1.98	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

1,4-Dichlorobenzene	105	ug/kg	20	21.0	21.6	108	72 - 126	2.84	40
Dichlorodifluoromethane	81.2	ug/kg	20	16.2	16.0	80.2	16 - 152	1.18	40
1,1-Dichloroethane	102	ug/kg	20	20.4	20.5	102	74 - 131	.53	40
1,2-Dichloroethane	103	ug/kg	20	20.6	20.6	103	69 - 132	.02	40
1,1-Dichloroethene	108	ug/kg	20	21.6	21.7	109	59 - 139	.48	40
cis-1,2-Dichloroethene	106	ug/kg	20	21.2	21.2	106	75 - 128	.09	40
trans-1,2-Dichloroethene	103	ug/kg	20	20.6	20.9	105	66 - 133	1.3	40
1,2-Dichloropropane	101	ug/kg	20	20.1	20.3	101	78 - 131	.68	40
cis-1,3-Dichloropropene	104	ug/kg	20	20.8	22.1	111	76 - 123	6.31	40
trans-1,3-Dichloropropene	114	ug/kg	20	22.8	23.6	118	77 - 123	3.16	40
Ethylbenzene	104	ug/kg	20	20.9	21.4	107	73 - 133	2.58	40
Freon 113	110*	ug/kg	20	22.1	22.1	110*	40 - 109	.009	40
2-Hexanone	121	ug/kg	100	121	124	124	62 - 147	2.25	40
Isopropylbenzene	108	ug/kg	20	21.6	22.2	111	71 - 137	2.61	40
Methyl acetate	107	ug/kg	20	21.4	21.1	106	70 - 130	1.32	40
Methyl cyclohexane	108	ug/kg	20	21.6	21.6	108	70 - 130	.34	40
Methyl t-Butyl Ether	99.4	ug/kg	20	19.9	20.1	100	70 - 118	1.01	40
4-Methyl-2-Pentanone(MIBK)	113	ug/kg	100	113	115	115	64 - 143	1.81	40
Methylene Chloride	106	ug/kg	20	21.2	21.2	106	68 - 133	.13	40
Styrene	109	ug/kg	20	21.9	22.4	112	77 - 130	2.41	40
1,1,2,2-Tetrachloroethane	107	ug/kg	20	21.4	21.5	108	72 - 134	.55	40
Tetrachloroethene	91.8	ug/kg	20	18.4	19.0	94.8	58 - 137	3.13	40
Toluene	103	ug/kg	20	20.6	21.8	109	73 - 129	5.43	40
Total Xylenes	103	ug/kg	60	61.6	65.1	109	73 - 130	5.56	40
1,2,3-Trichlorobenzene	114	ug/kg	20	22.7	23.2	116	68 - 129	2.17	40
1,2,4-Trichlorobenzene	112	ug/kg	20	22.4	22.8	114	63 - 132	1.55	40
1,1,1-Trichloroethane	99.3	ug/kg	20	19.9	19.9	99.3	68 - 131	.05	40
1,1,2-Trichloroethane	103	ug/kg	20	20.6	21.6	108	79 - 123	4.88	40
Trichloroethene	99.2	ug/kg	20	19.8	19.8	99	72 - 129	.27	40
Trichlorofluoromethane	95.5	ug/kg	20	19.1	18.9	94.5	40 - 130	1.09	40
Vinyl Chloride	88	ug/kg	20	17.6	17.7	88.5	53 - 141	.53	40
o-Xylene	100	ug/kg	20	20.0	21.3	106	75 - 129	6.06	40
mp-Xylene	104	ug/kg	40	41.6	43.8	110	72 - 130	5.33	40
1,2-Dichloroethane-d4 (S)	114	%			114		56 - 124		
4-Bromofluorobenzene (S)	116	%			116		51 - 128		
Dibromofluoromethane (S)	118	%			118		62 - 123		
Toluene-d8 (S)	119	%			119		59 - 131		

MATRIX SPIKE: 3426050 DUPLICATE: 3426051 ORIGINAL: 3213457004

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acetone	0	ug/kg	88.3	106.173	111.572	120	122	58 - 146	4.96	40

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### QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Benzene	0	ug/kg	17.7	15.6167	16.4567	88.4	90	75 - 132	5.24	40
Bromochloromethane	0	ug/kg	17.7	16.4372	16.7884	93	91.8	71 - 120	2.11	40
Bromodichloromethane	0	ug/kg	17.7	16.2154	16.4944	91.8	90.2	74 - 127	1.71	40
Bromoform	0	ug/kg	17.7	16.6368	17.2541	94.2	94.4	68 - 131	3.64	40
Bromomethane	0	ug/kg	17.7	12.7829	13.2061	72.4	72.2	43 - 148	3.26	40
2-Butanone	0	ug/kg	88.3	94.6716	93.5597	107	102	64 - 148	1.18	40
Carbon Disulfide	0	ug/kg	17.7	15.5009	16.229	87.7	88.8	47 - 144	4.59	40
Carbon Tetrachloride	0	ug/kg	17.7	17.5263	18.5457	99.2	101	64 - 136	5.65	40
Chlorobenzene	0	ug/kg	17.7	15.9614	16.8873	90.3	92.4	76 - 125	5.64	40
Chlorodibromomethane	0	ug/kg	17.7	17.1599	17.9362	97.1	98.1	75 - 124	4.42	40
Chloroethane	0	ug/kg	17.7	13.0998	13.8401	74.1	75.7	1 - 141	5.5	40
Chloroform	0	ug/kg	17.7	15.2566	15.7217	86.4	86	73 - 126	3	40
Chloromethane	0	ug/kg	17.7	12.044	12.4542	68.2	68.1	44 - 139	3.35	40
Cyclohexane	0	ug/kg	17.7	16.1247	16.8109	91.3	92	62 - 143	4.17	40
1,2-Dibromo-3-chloropropane	0	ug/kg	17.7	15.0678	15.5494	85.3	85.1	52 - 151	3.15	40
1,2-Dibromoethane	0	ug/kg	17.7	16.2184	17.1456	91.8	93.8	76 - 127	5.56	40
1,2-Dichlorobenzene	0	ug/kg	17.7	16.5376	17.1865	93.6	94	75 - 126	3.85	40
1,3-Dichlorobenzene	0	ug/kg	17.7	16.6514	17.1887	94.2	94	72 - 127	3.18	40
1,4-Dichlorobenzene	0	ug/kg	17.7	16.4285	17.0837	93	93.4	72 - 126	3.91	40
Dichlorodifluoromethane	0	ug/kg	17.7	12.8018	12.7287	72.5	69.6	16 - 152	.57	40
1,1-Dichloroethane	0	ug/kg	17.7	15.0938	15.8544	85.4	86.7	74 - 131	4.92	40
1,2-Dichloroethane	0	ug/kg	17.7	16.2279	16.5343	91.8	90.4	69 - 132	1.87	40
1,1-Dichloroethene	0	ug/kg	17.7	16.1012	16.8766	91.1	92.3	59 - 139	4.7	40
cis-1,2-Dichloroethene	0	ug/kg	17.7	16.3586	17.093	92.6	93.5	75 - 128	4.39	40
trans-1,2-Dichloroethene	0	ug/kg	17.7	15.6855	16.1569	88.8	88.4	66 - 133	2.96	40
1,2-Dichloropropane	0	ug/kg	17.7	15.9655	16.0518	90.4	87.8	78 - 131	.54	40
cis-1,3-Dichloropropene	0	ug/kg	17.7	16.5351	17.4472	93.6	95.4	76 - 123	5.37	40
trans-1,3-Dichloropropene	0	ug/kg	17.7	17.8001	18.7853	101	103	77 - 123	5.39	40
Ethylbenzene	0	ug/kg	17.7	16.4417	17.5933	93.1	96.2	73 - 133	6.77	40
Freon 113	0	ug/kg	17.7	17.274	17.7383	97.8	97	40 - 109	2.65	40
2-Hexanone	0	ug/kg	88.3	96.0678	100.43	109	110	62 - 147	4.44	40
Isopropylbenzene	0	ug/kg	17.7	16.8109	17.2865	95.1	94.6	71 - 137	2.79	40
Methyl acetate	0	ug/kg	17.7	16.5072	16.4013	93.4	89.7	70 - 130	.64	40
Methyl cyclohexane	0	ug/kg	17.7	17.2461	18.2886	97.6	100	70 - 130	5.87	40
Methyl t-Butyl Ether	0	ug/kg	17.7	15.6849	16.3825	88.8	89.6	70 - 118	4.35	40
4-Methyl-2-Pentanone(MIBK)	0	ug/kg	88.3	87.3383	91.2683	98.9	99.8	64 - 143	4.4	40
Methylene Chloride	0	ug/kg	17.7	16.3721	16.9275	92.7	92.6	68 - 133	3.34	40
Styrene	0	ug/kg	17.7	17.0014	17.3052	96.2	94.7	77 - 130	1.77	40
1,1,2,2-Tetrachloroethane	0	ug/kg	17.7	17.214	17.1377	97.4	93.7	72 - 134	.44	40
Tetrachloroethene	0	ug/kg	17.7	15.0003	16.6078	84.9	90.8	58 - 137	10.2	40
Toluene	0	ug/kg	17.7	16.1099	17.2007	91.2	94.1	73 - 129	6.55	40
Total Xylenes	0	ug/kg	53	49.3746	52.2796	93.2	95.3	73 - 130	5.72	40
1,2,3-Trichlorobenzene	0	ug/kg	17.7	16.1258	17.3941	91.3	95.1	68 - 129	7.57	40
1,2,4-Trichlorobenzene	0	ug/kg	17.7	16.5993	18.0746	94	98.9	63 - 132	8.51	40
1,1,1-Trichloroethane	0	ug/kg	17.7	14.8176	16.1005	83.9	88.1	68 - 131	8.3	40
1,1,2-Trichloroethane	0	ug/kg	17.7	16.9709	17.399	96.1	95.2	79 - 123	2.49	40

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

Trichloroethene	0	ug/kg	17.7	15.7913	16.2043	89.4	88.6	72 - 129	2.58	40
Trichlorofluoromethane	0	ug/kg	17.7	14.5479	15.0118	82.3	82.1	40 - 130	3.14	40
Vinyl Chloride	0	ug/kg	17.7	13.3439	13.7363	75.5	75.1	53 - 141	2.9	40
o-Xylene	0	ug/kg	17.7	16.3067	17.0119	92.3	93.1	75 - 129	4.23	40
mp-Xylene	0	ug/kg	35.3	33.0679	35.2677	93.6	96.5	72 - 130	6.44	40
1,2-Dichloroethane-d4 (S)	104	%				104	101	56 - 124		
4-Bromofluorobenzene (S)	102	%				102	102	51 - 128		
Dibromofluoromethane (S)	104	%				104	102	62 - 123		
Toluene-d8 (S)	103	%				103	106	59 - 131		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: VOMS/61931

Analysis Method: SW846 8260C

QC Batch Method: SW846 5035

Associated Lab Samples: 3213457007

METHOD BLANK: 3426258

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/kg	10.0
Benzene	ND	ug/kg	2.0
Bromochloromethane	ND	ug/kg	2.0
Bromodichloromethane	ND	ug/kg	2.0
Bromoform	ND	ug/kg	2.0
Bromomethane	ND	ug/kg	2.0
2-Butanone	ND	ug/kg	10.0
Carbon Disulfide	ND	ug/kg	2.0
Carbon Tetrachloride	ND	ug/kg	2.0
Chlorobenzene	ND	ug/kg	2.0
Chlorodibromomethane	ND	ug/kg	2.0
Chloroethane	ND	ug/kg	5.0
Chloroform	ND	ug/kg	2.0
Chloromethane	ND	ug/kg	2.0
Cyclohexane	ND	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.0
1,2-Dibromoethane	ND	ug/kg	2.0
1,2-Dichlorobenzene	ND	ug/kg	2.0
1,3-Dichlorobenzene	ND	ug/kg	2.0
1,4-Dichlorobenzene	ND	ug/kg	2.0
Dichlorodifluoromethane	ND	ug/kg	2.0
1,1-Dichloroethane	ND	ug/kg	2.0
1,2-Dichloroethane	ND	ug/kg	2.0
1,1-Dichloroethene	ND	ug/kg	2.0
cis-1,2-Dichloroethene	ND	ug/kg	2.0
trans-1,2-Dichloroethene	ND	ug/kg	2.0
1,2-Dichloropropane	ND	ug/kg	2.0
cis-1,3-Dichloropropene	ND	ug/kg	2.0
trans-1,3-Dichloropropene	ND	ug/kg	2.0
Ethylbenzene	ND	ug/kg	2.0
Freon 113	ND	ug/kg	2.0
2-Hexanone	ND	ug/kg	10.0
Isopropylbenzene	ND	ug/kg	2.0
Methyl acetate	ND	ug/kg	2.0
Methyl cyclohexane	ND	ug/kg	2.0
Methyl t-Butyl Ether	ND	ug/kg	2.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.0

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Methylene Chloride	ND	ug/kg	2.0
Styrene	ND	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.0
Tetrachloroethene	ND	ug/kg	2.0
Toluene	ND	ug/kg	2.0
Total Xylenes	ND	ug/kg	6.0
1,2,3-Trichlorobenzene	ND	ug/kg	5.0
1,2,4-Trichlorobenzene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	2.0
1,1,2-Trichloroethane	ND	ug/kg	2.0
Trichloroethene	ND	ug/kg	2.0
Trichlorofluoromethane	ND	ug/kg	2.0
Vinyl Chloride	ND	ug/kg	2.0
o-Xylene	ND	ug/kg	2.0
mp-Xylene	ND	ug/kg	4.0
1,2-Dichloroethane-d4 (S)	95.3	%	56 - 124
4-Bromofluorobenzene (S)	102	%	51 - 128
Dibromofluoromethane (S)	105	%	62 - 123
Toluene-d8 (S)	106	%	59 - 131

LABORATORY CONTROL SAMPLE: 3426259 DUPLICATE: 3426260

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Acetone	124	ug/kg	100	124	118	118	58 - 146	5.12	40
Benzene	104	ug/kg	20	20.9	20.6	103	75 - 132	1.4	40
Bromochloromethane	103	ug/kg	20	20.6	20.4	102	71 - 120	1.27	40
Bromodichloromethane	102	ug/kg	20	20.4	20.7	104	74 - 127	1.37	40
Bromoform	107	ug/kg	20	21.4	21.4	107	68 - 131	.03	40
Bromomethane	87.6	ug/kg	20	17.5	17.5	87.4	43 - 148	.24	40
2-Butanone	117	ug/kg	100	117	114	114	64 - 148	2.79	40
Carbon Disulfide	109	ug/kg	20	21.8	21.3	107	47 - 144	2.07	40
Carbon Tetrachloride	103	ug/kg	20	20.5	20.4	102	64 - 136	.49	40
Chlorobenzene	105	ug/kg	20	20.9	20.7	103	76 - 125	1.24	40
Chlorodibromomethane	107	ug/kg	20	21.5	21.1	105	75 - 124	1.85	40
Chloroethane	89.8	ug/kg	20	18.0	17.9	89.3	1 - 141	.59	40
Chloroform	99.6	ug/kg	20	19.9	19.9	99.3	73 - 126	.32	40
Chloromethane	79.8	ug/kg	20	16.0	15.6	77.9	44 - 139	2.44	40
Cyclohexane	105	ug/kg	20	21.1	20.4	102	62 - 143	3.4	40
1,2-Dibromo-3-chloropropane	102	ug/kg	20	20.5	20.6	103	52 - 151	.48	40
1,2-Dibromoethane	105	ug/kg	20	21.1	20.8	104	76 - 127	1.42	40
1,2-Dichlorobenzene	108	ug/kg	20	21.7	21.1	105	75 - 126	2.82	40
1,3-Dichlorobenzene	109	ug/kg	20	21.9	21.8	109	72 - 127	.51	40
1,4-Dichlorobenzene	110	ug/kg	20	22.0	21.7	109	72 - 126	1.18	40
Dichlorodifluoromethane	73.6	ug/kg	20	14.7	14.2	70.8	16 - 152	3.84	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

1,1-Dichloroethane	99.6	ug/kg	20	19.9	19.9	99.3	74 - 131	.27	40
1,2-Dichloroethane	100	ug/kg	20	20.0	19.9	99.6	69 - 132	.49	40
1,1-Dichloroethene	108	ug/kg	20	21.5	21.5	108	59 - 139	.03	40
cis-1,2-Dichloroethene	109	ug/kg	20	21.8	21.1	105	75 - 128	3.24	40
trans-1,2-Dichloroethene	106	ug/kg	20	21.1	21.1	105	66 - 133	.23	40
1,2-Dichloropropane	100	ug/kg	20	20.1	20.0	100	78 - 131	.17	40
cis-1,3-Dichloropropene	104	ug/kg	20	20.8	20.6	103	76 - 123	1.27	40
trans-1,3-Dichloropropene	113	ug/kg	20	22.5	22.1	111	77 - 123	1.67	40
Ethylbenzene	107	ug/kg	20	21.4	21.2	106	73 - 133	.82	40
Freon 113	113*	ug/kg	20	22.5	21.7	108	40 - 109	3.82	40
2-Hexanone	113	ug/kg	100	113	111	111	62 - 147	2.28	40
Isopropylbenzene	110	ug/kg	20	22.0	21.8	109	71 - 137	.93	40
Methyl acetate	111	ug/kg	20	22.2	21.8	109	70 - 130	1.79	40
Methyl cyclohexane	109	ug/kg	20	21.9	21.5	108	70 - 130	1.51	40
Methyl t-Butyl Ether	97.9	ug/kg	20	19.6	19.7	98.7	70 - 118	.79	40
4-Methyl-2-Pentanone(MIBK)	108	ug/kg	100	108	105	105	64 - 143	2.53	40
Methylene Chloride	105	ug/kg	20	21.0	21.2	106	68 - 133	.73	40
Styrene	113	ug/kg	20	22.6	21.9	110	77 - 130	3.23	40
1,1,2,2-Tetrachloroethane	108	ug/kg	20	21.7	21.5	107	72 - 134	.76	40
Tetrachloroethene	96.5	ug/kg	20	19.3	19.1	95.5	58 - 137	1.04	40
Toluene	106	ug/kg	20	21.3	20.9	104	73 - 129	1.93	40
Total Xylenes	107	ug/kg	60	64.2	63.7	106	73 - 130	.82	40
1,2,3-Trichlorobenzene	109	ug/kg	20	21.9	22.0	110	68 - 129	.47	40
1,2,4-Trichlorobenzene	113	ug/kg	20	22.6	21.7	108	63 - 132	4.35	40
1,1,1-Trichloroethane	101	ug/kg	20	20.2	19.7	98.7	68 - 131	2.37	40
1,1,2-Trichloroethane	104	ug/kg	20	20.8	20.8	104	79 - 123	.26	40
Trichloroethene	101	ug/kg	20	20.2	20.3	101	72 - 129	.08	40
Trichlorofluoromethane	94.5	ug/kg	20	18.9	18.8	94.1	40 - 130	.42	40
Vinyl Chloride	86.1	ug/kg	20	17.2	16.6	83.1	53 - 141	3.47	40
o-Xylene	103	ug/kg	20	20.6	20.5	103	75 - 129	.31	40
mp-Xylene	109	ug/kg	40	43.6	43.1	108	72 - 130	1.06	40
1,2-Dichloroethane-d4 (S)	98	%			98		56 - 124		
4-Bromofluorobenzene (S)	103	%			103		51 - 128		
Dibromofluoromethane (S)	101	%			101		62 - 123		
Toluene-d8 (S)	105	%			105		59 - 131		

MATRIX SPIKE: 3426785 DUPLICATE: 3426786 ORIGINAL: 3213457007

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acetone	0	ug/kg	85.8	77.394	67.9584	90.2	82.4	58 - 146	13	40
Benzene	0	ug/kg	17.2	9.29404	9.00463	54.2*	54.6*	75 - 132	3.16	40
Bromochloromethane	0	ug/kg	17.2	10.1024	8.92845	58.9*	54.1*	71 - 120	12.3	40

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Bromodichloromethane	0	ug/kg	17.2	9.78907	8.82568	57.1*	53.5*	74 - 127	10.4	40
Bromoform	0	ug/kg	17.2	9.13063	8.42363	53.2*	51*	68 - 131	8.06	40
Bromomethane	0	ug/kg	17.2	2.73891	7.93189	16*	48.1	43 - 148	97.3	40
2-Butanone	0	ug/kg	85.8	60.5102	54.4898	70.6	66	64 - 148	10.5	40
Carbon Disulfide	0	ug/kg	17.2	8.89631	8.56663	51.9	51.9	47 - 144	3.78	40
Carbon Tetrachloride	0	ug/kg	17.2	8.80948	8.69836	51.4*	52.7*	64 - 136	1.27	40
Chlorobenzene	0	ug/kg	17.2	8.01286	7.36281	46.7*	44.6*	76 - 125	8.46	40
Chlorodibromomethane	0	ug/kg	17.2	9.97767	8.47052	58.2*	51.3*	75 - 124	16.3	40
Chloroethane	0	ug/kg	17.2	.91556	8.94669	5.34	54.2	1 - 141	163	40
Chloroform	0	ug/kg	17.2	9.28763	8.57587	54.1*	52*	73 - 126	7.97	40
Chloromethane	0	ug/kg	17.2	1.0472	7.77141	6.11*	47.1	44 - 139	153	40
Cyclohexane	0	ug/kg	17.2	7.30071	8.05585	42.6*	48.8*	62 - 143	9.83	40
1,2-Dibromo-3-chloropropane	0	ug/kg	17.2	7.84769	7.17479	45.8*	43.5*	52 - 151	8.96	40
1,2-Dibromoethane	0	ug/kg	17.2	9.52377	8.39378	55.5*	50.9*	76 - 127	12.6	40
1,2-Dichlorobenzene	0	ug/kg	17.2	5.87341	5.78058	34.2*	35*	75 - 126	1.59	40
1,3-Dichlorobenzene	0	ug/kg	17.2	5.88876	6.07402	34.3*	36.8*	72 - 127	3.1	40
1,4-Dichlorobenzene	0	ug/kg	17.2	6.14579	5.89694	35.8*	35.7*	72 - 126	4.13	40
Dichlorodifluoromethane	0	ug/kg	17.2	.58595	7.18329	3.42*	43.5	16 - 152	170	40
1,1-Dichloroethane	0	ug/kg	17.2	9.52095	8.842	55.5*	53.6*	74 - 131	7.39	40
1,2-Dichloroethane	0	ug/kg	17.2	10.0679	8.84263	58.7*	53.6*	69 - 132	13	40
1,1-Dichloroethene	0	ug/kg	17.2	9.23777	9.3784	53.9*	56.8*	59 - 139	1.51	40
cis-1,2-Dichloroethene	0	ug/kg	17.2	9.80075	9.35061	57.1*	56.7*	75 - 128	4.7	40
trans-1,2-Dichloroethene	0	ug/kg	17.2	9.45908	9.08834	55.1*	55.1*	66 - 133	4	40
1,2-Dichloropropane	0	ug/kg	17.2	9.44008	8.71539	55*	52.8*	78 - 131	7.98	40
cis-1,3-Dichloropropene	0	ug/kg	17.2	9.54898	8.28623	55.7*	50.2*	76 - 123	14.2	40
trans-1,3-Dichloropropene	0	ug/kg	17.2	10.2866	8.77014	60*	53.1*	77 - 123	15.9	40
Ethylbenzene	0	ug/kg	17.2	8.23285	7.92285	48*	48*	73 - 133	3.84	40
Freon 113	0	ug/kg	17.2	9.48493	9.28152	55.3	56.2	40 - 109	2.17	40
2-Hexanone	0	ug/kg	85.8	58.4527	49.4654	68.2	60*	62 - 147	16.7	40
Isopropylbenzene	0	ug/kg	17.2	7.47074	7.81967	43.6*	47.4*	71 - 137	4.56	40
Methyl acetate	0	ug/kg	17.2	18.7608	15.5025	109	93.9	70 - 130	19	40
Methyl cyclohexane	0	ug/kg	17.2	6.12683	7.64763	35.7*	46.3*	70 - 130	22.1	40
Methyl t-Butyl Ether	0	ug/kg	17.2	9.75596	8.67105	56.9*	52.5*	70 - 118	11.8	40
4-Methyl-2-Pentanone(MIBK)	0	ug/kg	85.8	57.5581	46.6099	67.1	56.5*	64 - 143	21	40
Methylene Chloride	0	ug/kg	17.2	9.91669	9.06845	57.8*	55*	68 - 133	8.94	40
Styrene	0	ug/kg	17.2	7.75296	7.24175	45.2*	43.9*	77 - 130	6.82	40
1,1,1,2,2-Tetrachloroethane	0	ug/kg	17.2	9.4256	8.77558	55*	53.2*	72 - 134	7.14	40
Tetrachloroethene	0	ug/kg	17.2	6.76157	6.87947	39.4*	41.7*	58 - 137	1.73	40
Toluene	0	ug/kg	17.2	9.04803	8.7035	52.8*	52.7*	73 - 129	3.88	40
Total Xylenes	0	ug/kg	51.5	23.6347	22.6279	45.9*	45.7*	73 - 130	4.35	40
1,2,3-Trichlorobenzene	0	ug/kg	17.2	3.29055	3.4649	19.2*	21*	68 - 129	5.16	40
1,2,4-Trichlorobenzene	0	ug/kg	17.2	3.64209	3.92619	21.2*	23.8*	63 - 132	7.51	40
1,1,1-Trichloroethane	0	ug/kg	17.2	8.85494	8.62014	51.6*	52.2*	68 - 131	2.69	40
1,1,2-Trichloroethane	0	ug/kg	17.2	10.3546	8.65678	60.4*	52.5*	79 - 123	17.9	40
Trichloroethene	0	ug/kg	17.2	8.56354	8.36756	49.9*	50.7*	72 - 129	2.32	40
Trichlorofluoromethane	0	ug/kg	17.2	.68336	9.1242	3.98*	55.3	40 - 130	172	40

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

Vinyl Chloride	0	ug/kg	17.2	.84926	8.39458	4.95*	50.9*	53 - 141	163	40
o-Xylene	0	ug/kg	17.2	7.62839	7.25434	44.5*	44*	75 - 129	5.03	40
mp-Xylene	0	ug/kg	34.3	16.0063	15.3736	46.7*	46.6*	72 - 130	4.03	40
1,2-Dichloroethane-d4 (S)	106	%				106	103	56 - 124		
4-Bromofluorobenzene (S)	105	%				105	102	51 - 128		
Dibromofluoromethane (S)	105	%				105	103	62 - 123		
Toluene-d8 (S)	105	%				105	99.9	59 - 131		

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

**QC Batch:** VOMS/61957 **Analysis Method:** SW846 8260C  
**QC Batch Method:** SW846 8260C  
**Associated Lab Samples:** 3213457027, 3213457030

### METHOD BLANK: 3427606

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/L	10.0
Benzene	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
Bromomethane	0.56J	ug/L	1.0
2-Butanone	ND	ug/L	10.0
Carbon Disulfide	ND	ug/L	1.0
Carbon Tetrachloride	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
Chlorodibromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Cyclohexane	ND	ug/L	1.0
1,2-Dibromo-3-chloropropane	ND	ug/L	7.0
1,2-Dibromoethane	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
Dichlorodifluoromethane	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
cis-1,3-Dichloropropene	ND	ug/L	1.0
trans-1,3-Dichloropropene	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Freon 113	ND	ug/L	1.0
2-Hexanone	ND	ug/L	5.0
Isopropylbenzene	ND	ug/L	1.0
Methyl acetate	ND	ug/L	2.0
Methyl cyclohexane	ND	ug/L	1.0
Methyl t-Butyl Ether	ND	ug/L	1.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/L	5.0

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### QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

Methylene Chloride	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
Total Xylenes	ND	ug/L	3.0
1,2,3-Trichlorobenzene	ND	ug/L	2.0
1,2,4-Trichlorobenzene	ND	ug/L	2.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
Vinyl Chloride	ND	ug/L	1.0
o-Xylene	ND	ug/L	1.0
mp-Xylene	ND	ug/L	2.0
1,2-Dichloroethane-d4 (S)	92.2	%	62 - 133
4-Bromofluorobenzene (S)	99.9	%	79 - 114
Dibromofluoromethane (S)	81.6	%	78 - 116
Toluene-d8 (S)	90.1	%	76 - 127

#### LABORATORY CONTROL SAMPLE: 3427607

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acetone	113	ug/L	100	113	40 - 151
Benzene	89.9	ug/L	20	18.0	80 - 124
Bromochloromethane	84.4	ug/L	20	16.9	73 - 117
Bromodichloromethane	93.9	ug/L	20	18.8	79 - 126
Bromoform	89.8	ug/L	20	18.0	70 - 123
Bromomethane	76.5	ug/L	20	15.3	45 - 148
2-Butanone	93.8	ug/L	100	93.8	50 - 152
Carbon Disulfide	92.5	ug/L	20	18.5	57 - 131
Carbon Tetrachloride	94.9	ug/L	20	19.0	62 - 132
Chlorobenzene	92.8	ug/L	20	18.6	85 - 117
Chlorodibromomethane	103	ug/L	20	20.7	77 - 122
Chloroethane	85	ug/L	20	17.0	51 - 142
Chloroform	92	ug/L	20	18.4	78 - 122
Chloromethane	100	ug/L	20	20.1	38 - 156
Cyclohexane	94.8	ug/L	20	19.0	66 - 130
1,2-Dibromo-3-chloropropane	84.9	ug/L	20	17.0	59 - 133
1,2-Dibromoethane	96.5	ug/L	20	19.3	80 - 124
1,2-Dichlorobenzene	106	ug/L	20	21.3	82 - 118
1,3-Dichlorobenzene	104	ug/L	20	20.8	81 - 118
1,4-Dichlorobenzene	104	ug/L	20	20.8	81 - 116
Dichlorodifluoromethane	99.3	ug/L	20	19.9	17 - 166

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

1,1-Dichloroethane	93.4	ug/L	20	18.7	78 - 124
1,2-Dichloroethane	97.4	ug/L	20	19.5	70 - 133
1,1-Dichloroethene	99.6	ug/L	20	19.9	63 - 128
cis-1,2-Dichloroethene	94.2	ug/L	20	18.8	78 - 125
trans-1,2-Dichloroethene	95.5	ug/L	20	19.1	71 - 122
1,2-Dichloropropane	91.8	ug/L	20	18.4	81 - 127
cis-1,3-Dichloropropene	104	ug/L	20	20.8	81 - 121
trans-1,3-Dichloropropene	110	ug/L	20	22.0	78 - 126
Ethylbenzene	97.8	ug/L	20	19.6	80 - 124
Freon 113	99.2	ug/L	20	19.8	50 - 130
2-Hexanone	122	ug/L	100	122	65 - 154
Isopropylbenzene	115	ug/L	20	22.9	73 - 129
Methyl acetate	92.5	ug/L	20	18.5	70 - 130
Methyl cyclohexane	103	ug/L	20	20.6	70 - 130
Methyl t-Butyl Ether	99	ug/L	20	19.8	69 - 115
4-Methyl-2-Pentanone(MIBK)	114	ug/L	100	114	71 - 146
Methylene Chloride	87.8	ug/L	20	17.6	76 - 121
Styrene	114	ug/L	20	22.8	79 - 123
1,1,2,2-Tetrachloroethane	108	ug/L	20	21.6	74 - 135
Tetrachloroethene	91.9	ug/L	20	18.4	72 - 124
Toluene	101	ug/L	20	20.2	80 - 125
Total Xylenes	100	ug/L	60	60.2	79 - 125
1,2,3-Trichlorobenzene	92.6	ug/L	20	18.5	61 - 126
1,2,4-Trichlorobenzene	101	ug/L	20	20.3	67 - 123
1,1,1-Trichloroethane	96.1	ug/L	20	19.2	66 - 130
1,1,2-Trichloroethane	98.8	ug/L	20	19.8	82 - 126
Trichloroethene	86.5	ug/L	20	17.3	77 - 124
Trichlorofluoromethane	82	ug/L	20	16.4	38 - 123
Vinyl Chloride	90	ug/L	20	18.0	27 - 138
o-Xylene	98.4	ug/L	20	19.7	79 - 124
mp-Xylene	101	ug/L	40	40.5	79 - 125
1,2-Dichloroethane-d4 (S)	89.8	%			62 - 133
4-Bromofluorobenzene (S)	101	%			79 - 114
Dibromofluoromethane (S)	83	%			78 - 116
Toluene-d8 (S)	90.2	%			76 - 127

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## QUALITY CONTROL DATA

Workorder: 3213457 Caneel Bay USVI

QC Batch: WETC/263148

Analysis Method: S2540G-11

QC Batch Method: S2540G-11

Associated Lab Samples: 3213457001, 3213457002, 3213457003, 3213457004, 3213457005, 3213457006, 3213457007, 3213457008, 3213457009, 3213457010, 3213457011, 3213457012, 3213457013, 3213457028, 3213457029

SAMPLE DUPLICATE: 3425793 ORIGINAL: 3213318002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	13.1134	%	10.0802	26.2*	10
Total Solids	86.8865	%	89.9197	3.43	5

SAMPLE DUPLICATE: 3425794 ORIGINAL: 3213441006

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	10.0513	%	11.0451	9.42	10
Total Solids	89.9486	%	88.9548	1.11	5

SAMPLE DUPLICATE: 3425800 ORIGINAL: 3213457004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	24.035	%	25.0561	4.16	10
Total Solids	75.9649	%	74.9438	1.35	5

SAMPLE DUPLICATE: 3425795 ORIGINAL: 3213457007

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	19.9178	%	20.9205	4.91	10
Total Solids	80.0821	%	79.0794	1.26	5

SAMPLE DUPLICATE: 3425796 ORIGINAL: 3213647002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	21.5242	%	11.2096	63*	10
Total Solids	78.4757	%	88.7903	12.3*	5

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**QUALITY CONTROL DATA**

Workorder: 3213457 Caneel Bay USVI

SAMPLE DUPLICATE: 3425797 ORIGINAL: 3213660001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	4.5372	%	4.8521	6.71	10
Total Solids	95.4627	%	95.1478	.33	5

SAMPLE DUPLICATE: 3425798 ORIGINAL: 3213678005

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	26.8041	%	27.9633	4.23	10
Total Solids	73.1958	%	72.0366	1.6	5

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**QUALITY CONTROL DATA QUALIFIERS**

Workorder: 3213457 Caneel Bay USVI

**QUALITY CONTROL PARAMETER QUALIFIERS**

Lab ID	#	Sample Type	Analytical Method	Analyte
<b>3425430</b>	1	Lab Control Standard	SW846 8260C	Methyl cyclohexane
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.				
<b>3425430</b>	2	Lab Control Standard	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 144 and the control limits were 40 to 109.				
<b>3425430</b>	3	Lab Control Standard	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 142 and the control limits were 70 to 130.				
<b>3425808</b>	4	Lab Control Standard	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.				
<b>3426259</b>	5	Lab Control Standard	SW846 8260C	Freon 113
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 113 and the control limits were 40 to 109.				

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3213457027	EB-SOIL-20211116	SW846 3510C	EXTR/67277	SW846 8270D	SVMS/40457
3213457027	EB-SOIL-20211116	SW846 3510C	EXTR/67278	8270 SIM	SVMS/40441
3213457001	SC-2-19-20	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3213457002	SC-2-20-15	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3213457003	SC-C7-01-5	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3213457005	SC-C7-03-6.6	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3213457006	SC-07-101	SW846 5035	VOMS/61904	SW846 8260C	VOMS/61905
3213457026	EB-SOIL-20211113	SW846 3511	EXTR/67280	SW846 8081B	SVGC/62564
3213457027	EB-SOIL-20211116	SW846 3511	EXTR/67280	SW846 8081B	SVGC/62564
3213457027	EB-SOIL-20211116	SW846 3511	EXTR/67281	SW846 8082A	SVGC/62557
3213457001	SC-2-19-20			S2540G-11	WETC/263148
3213457002	SC-2-20-15			S2540G-11	WETC/263148
3213457003	SC-C7-01-5			S2540G-11	WETC/263148
3213457004	SC-C7-02-5			S2540G-11	WETC/263148
3213457005	SC-C7-03-6.6			S2540G-11	WETC/263148
3213457006	SC-07-101			S2540G-11	WETC/263148
3213457007	SC-1-01-0.5			S2540G-11	WETC/263148
3213457008	SC-1-01-17			S2540G-11	WETC/263148
3213457009	SC-1-02-0.5			S2540G-11	WETC/263148
3213457010	SC-1-02-4.3			S2540G-11	WETC/263148
3213457011	SC-1-03-0.5			S2540G-11	WETC/263148
3213457012	SC-1-03-4			S2540G-11	WETC/263148
3213457013	SC-1-101			S2540G-11	WETC/263148
3213457028	SC-2-21-15			S2540G-11	WETC/263148
3213457029	SC-2-22-18			S2540G-11	WETC/263148

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3213457004	SC-C7-02-5	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457008	SC-1-01-17	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457009	SC-1-02-0.5	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457010	SC-1-02-4.3	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457011	SC-1-03-0.5	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457012	SC-1-03-4	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457013	SC-1-101	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457028	SC-2-21-15	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457029	SC-2-22-18	SW846 5035	VOMS/61923	SW846 8260C	VOMS/61924
3213457007	SC-1-01-0.5	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457008	SC-1-01-17	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457009	SC-1-02-0.5	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457010	SC-1-02-4.3	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457011	SC-1-03-0.5	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457012	SC-1-03-4	SW846 3546A	EXTR/67299	SW846 8081B	SVGC/62605
3213457007	SC-1-01-0.5	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457008	SC-1-01-17	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457009	SC-1-02-0.5	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457010	SC-1-02-4.3	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457011	SC-1-03-0.5	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457012	SC-1-03-4	SW846 3546A	EXTR/67300	SW846 8082A	SVGC/62589
3213457001	SC-2-19-20	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457002	SC-2-20-15	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457003	SC-C7-01-5	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457004	SC-C7-02-5	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457005	SC-C7-03-6.6	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457006	SC-07-101	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457007	SC-1-01-0.5	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457008	SC-1-01-17	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3213457009	SC-1-02-0.5	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457010	SC-1-02-4.3	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457011	SC-1-03-0.5	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457012	SC-1-03-4	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457013	SC-1-101	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457028	SC-2-21-15	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457029	SC-2-22-18	SW846 3546A	EXTR/67302	SW846 8270D	SVMS/40470
3213457007	SC-1-01-0.5	SW846 5035	VOMS/61931	SW846 8260C	VOMS/61932
3213457013	SC-1-101	SW846 3546A	EXTR/67322	SW846 8081B	SVGC/62607
3213457013	SC-1-101	SW846 3546A	EXTR/67323	SW846 8082A	SVGC/62612
3213457027	EB-SOIL-20211116			SW846 8260C	VOMS/61957
3213457030	TB-20211116			SW846 8260C	VOMS/61957
3213457001	SC-2-19-20	SW846 3051	MDIG/92747	SW846 6020A	META/84422
3213457002	SC-2-20-15	SW846 3051	MDIG/92747	SW846 6020A	META/84422
3213457003	SC-C7-01-5	SW846 3051	MDIG/92747	SW846 6020A	META/84422
3213457004	SC-C7-02-5	SW846 3051	MDIG/92747	SW846 6020A	META/84422
3213457026	EB-SOIL-20211113	SW846 3015	MDIG/92753	SW846 6020A	META/84471
3213457027	EB-SOIL-20211116	SW846 3015	MDIG/92753	SW846 6020A	META/84471
3213457005	SC-C7-03-6.6	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457006	SC-07-101	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457007	SC-1-01-0.5	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457008	SC-1-01-17	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457009	SC-1-02-0.5	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457010	SC-1-02-4.3	SW846 3051	MDIG/92770	SW846 6020A	META/84483

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: 3213457 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3213457011	SC-1-03-0.5	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457012	SC-1-03-4	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457013	SC-1-101	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457028	SC-2-21-15	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457029	SC-2-22-18	SW846 3051	MDIG/92770	SW846 6020A	META/84483
3213457014	IA-CB-01 A	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457015	IA-CB-01 B	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457016	IA-CB-01 C	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457017	IA-CB-02 A	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457018	IA-CB-02 B	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457019	IA-CB-02 C	SW846 3546A	EXTR/67391	SW846 8081B	SVGC/62651
3213457020	IA-Ref-03 A	SW846 3051	MDIG/92864	SW846 6020A	META/84558
3213457021	IA-Ref-03 B	SW846 3051	MDIG/92864	SW846 6020A	META/84558
3213457022	IA-Ref-03 C	SW846 3051	MDIG/92864	SW846 6020A	META/84558
3213457023	IA-Ref-04 A	SW846 3051	MDIG/92864	SW846 6020A	META/84558
3213457024	IA-Ref-04 B	SW846 3051	MDIG/92864	SW846 6020A	META/84558
3213457025	IA-Ref-04 C	SW846 3051	MDIG/92864	SW846 6020A	META/84558

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301 Fulling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.



3213457

Client Name: VHB		Container Type	C	TCK	C	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	4 oz	40 ml	8 oz	W.O. Temp: 30 (Soil) Therm ID: 569	
Contact: Ben Deede		Preservation	NA	MeOH, D	NA	Courier/Tracking #: 211101051	
Phone#: 401-447-8254		ANALYSIS/METHOD REQUESTED					Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Project Comments:					
Bill To: VHB, Montpelier, VT		Matrix					
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		PAH, Lead					ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor
Date Required: Approved?		VOCs					<input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment
Email? <input checked="" type="checkbox"/> -Y bdeede@vnhb.com, rkay@vnhb.com		PAH, Metals, Pesticides, PCBs					Other:
Fax? <input type="checkbox"/> -Y No.		Enter Number of Containers Per Sample or Field Results Below.					Sample/COC Comments
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	G or C	Matrix	PAH, Lead	VOCs	MS/MSD
1 SC-2-19-20	11/12/21	08:45	G	S	1	4	
2 SC-2-20-15	11/12/21	10:50	G	S	1	4	
3 SC-C7-01-5	11/12/21	11:50	G	S	1	4	
4 SC-C7-02-5 + MS/MSD	11/12/21	13:30	G	S	1	12	MS/MSD
5 SC-C7-03-6.6	11/12/21	14:30	G	S	1	4	
6 SC-C7-101	11/12/21	12:00	G	S	1	4	
7 SC-1-01-0.5 + MS/MSD	11/15/21	13:50	G	S	12	1	MS/MSD
8 SC-1-01-17	11/15/21	14:00	G	S	4	1	
9 SC-1-02-0.5	11/15/21	15:00	G	S	4	1	
10 SC-1-02-4.3	11/15/21	15:10	G	S	4	1	
SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)							
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Data	
1 B A VHB	11/12/21	11:00	2 Fed Ex	11/12/21	09:23	Deliverables	
3 B A VHB			4 SHCLAS			Reportable to PADEP?	
5 B A VHB			6			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7 B A VHB			8			PWSID #	
9 B A VHB			10			EDDS: Format Type	
Special Processing		Special Processing		State Samples Collected In		other	
USACE		USACE/DOD		USACE		NY	
Navy		Navy		Navy		NJ	
Sample Disposal		Sample Disposal		Sample Disposal		PA	
Lab		Lab		Lab		NC	
Special		Special		Special			

\* G=Grab, C=Composite

\*\* Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Middletown, PA 17057

Rev 11/18





301 Fulling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.**

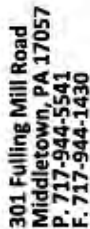
COC #: **2** of **3**  
ALS Quote #:

Client Name: VHB		Container Type	C	TCOK	C	P	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	4 oz	40 ml	8 oz	1 gal	1 gal	W.O. Temp: 30°C (Water) Therm ID: 529	
Contact: Ben Deede		Preservative	NA	MeOH, D	NA	NA	NA	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED							
Project Name/ID: Caneel Bay USVI		Purchase Order #: 211101051							
Bill To: VHB, Montpelier, VT		Project Comments:							
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:							
Date Required: Email? <input checked="" type="checkbox"/> Y bdeede@vnb.com, rkey@vnb.com Fax? <input type="checkbox"/> Y No:		Sample/COC Comments:							
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.					
11	SC-1-03-0.5	11/15/21	15:50	G	S	4	1		
12	SC-1-03-4	11/15/21	15:55	G	S	4	1		
13	SC-1-101	11/15/21	12:00	G	S	4	1		
14	IA-CB-01 A	11/13/21	10:15	C	S		1	ISM Arsenic	
15	IA-CB-01 B	11/13/21	10:30	C	S		1	ISM Pesticides	
16	IA-CB-01 C	11/13/21	10:45	C	S		1	PAH, Metals, Pesticides, PCBs	
17	IA-CB-02 A	11/13/21	11:15	C	S		1	VOCs	
18	IA-CB-02 B	11/13/21	11:30	C	S		1	PAH, Lead	
19	IA-CB-02 C	11/13/21	11:45	C	S		1		
20	IA-Ref-03 A	11/13/21	14:15	C	S		1		
SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)		Sampler Comments:							
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	Data Deliverables	
1. [Signature]		11/17/21	11:00	2. Fed Ex				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD	
3. [Signature]				4. SHCLACS				<input type="checkbox"/> USACE <input type="checkbox"/> Navy <input type="checkbox"/> NJ	
5. [Signature]				6. [Signature]				Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7. [Signature]				8. [Signature]				Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
9. [Signature]				10. [Signature]				PWSID # EDDS: Format Type-	
		* G=Grab; C=Composite							
		** Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater							

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**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: VHB		Container Type	P	CG	AG	P	AG	CG	TCK	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 gal	40 ml	125 ml	125 ml	1 L	4 oz	40 ml	125 ml	W.O. Temp: 3:30 (initials) 5/09	
Contact: Ben Deede		Preservative	NA	MeOH	NA	HNO3	NA	NA	MeOH, DI	HNO3	Courier/Tracking #	
Phone#: 401-447-8254		Purchase Order #: 211101051										
Project Name#: Caneel Bay USVI		Project Comments:										
Bill To: VHB, Montpelier, VT		ANALYSES/METHOD REQUESTED										
<input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.												
Date Required: _____ Approved? _____												
Email? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N bdeede@vnb.com, rlay@vnb.com												
Fax? <input type="checkbox"/> Y <input type="checkbox"/> N No.:												
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	Matrix	ISM Arsenic	VOCs	Pesticides/PCBs	Total Metals	PAH	PAH, Lead	VOCs	Lead	ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:
21 IA-Ref-03 B + MS/MSD	11/13/21	14:15	C S	1								MS/MSD
22 IA-Ref-03 C	11/13/21	14:45	C S	1								
23 IA-Ref-04 A	11/15/21	09:30	C S	1								
24 IA-Ref-04 B	11/15/21	09:45	C S	1								
25 IA-Ref-04 C	11/15/21	10:30	C S	1								
26 EB-SOIL-20211113	11/13/21	15:30	C S	1								
27 EB-SOIL-20211116	11/16/21	08:00	G W	2	2	1	2	2			1	Only 2 VOC vials provided per sample
28 TB-20211116	11/16/21	NA	G W	3								Only 2 VOC vials provided per sample
29 SC-2-21-15	11/16/21	14:25	G S									
30 SC-2-22-13	11/16/21	15:25	G S									
Requisitioned By: Company Name Date: 11/16/21 Time: 11:00 Received By / Company Name: Fed Ex Date: 11/19/21 Time: 09:23 Sample Disposal: Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/> State Samples Collected In: NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/> Special Processing: USACE <input type="checkbox"/> Navy <input type="checkbox"/> Deliverables: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD <input type="checkbox"/> Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> PWSID #: EDDS: Format Type: other: Sample Comments: SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)												





301 Fulling Mill Road  
Middletown, PA 17057

P: (717) 321-3457  
F: (717) 321-3457

**3213457**

## Condition of Sample Receipt Form

Client: \_\_\_\_\_

VHB - Vermont

8128 4626 3363

Initials: \_\_\_\_\_

Date: \_\_\_\_\_

8128 4626 3293 SHC

11/19/21

1. Were airbills / tracking numbers present and recorded? 8128 4626 3352 NONE ☒ YES NO  
Tracking number: 8128 4626 3341
2. Are Custody Seals on shipping containers intact? 8128 4626 3282 NONE ☒ YES NO
3. Are Custody Seals on sample containers intact? NONE ☒ YES NO
4. Is there a COC (Chain-of-Custody) present? NONE ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement? YES ☒ NO  
  - 5a. Does the COC contain sample locations? YES ☒ NO
  - 5b. Does the COC contain date and time of sample collection for all samples? YES ☒ NO
  - 5c. Does the COC contain sample collectors name? YES ☒ NO
  - 5d. Does the COC note the type(s) of preservation for all bottles? N/A = UNP YES ☒ NO
  - 5e. Does the COC note the number of bottles submitted for each sample? YES ☒ NO
  - 5f. Does the COC note the type of sample, composite or grab? YES ☒ NO
  - 5g. Does the COC note the matrix of the sample(s)? Soil/water YES ☒ NO
6. Are all aqueous samples requiring preservation preserved correctly? N/A YES ☒ NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume? YES ☒ NO
8. Are all samples within holding times for the requested analyses? YES ☒ NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.) YES ☒ NO
10. Did we receive trip blanks ( applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)? N/A YES ☒ NO
11. Were the samples received on ice? YES ☒ NO
12. Were sample temperatures measured at 0.0-6.0°C? YES ☒ NO
13. Are the samples DW matrix? If YES, fill out Reportable Drinking Water questions below. YES ☒ NO  
  - 13a. Are the samples required for SDWA compliance reporting? N/A YES NO
  - 13b. Did the client provide a SDWA PWS ID#? N/A YES NO
  - 13c. Are all aqueous unpreserved SDWA samples pH 5-9? N/A YES NO
  - 13d. Did the client provide the SDWA sample location ID/Description? N/A YES NO
  - 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)? N/A YES NO

Cooler #: \_\_\_\_\_

Temperature (°C): 1° 3°

Thermometer ID: Water Soil

Radiological (µCi): 569 569

COMMENTS (Required for all NO responses above and any sample non-conformance):

<sup>1</sup>Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

## SDG 3215193 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
MW-2-07	11/17/2021	8270D 8270 SIM 6020A	Primary
MW-2-06	11/18/2021	8270D 8270 SIM 6020A	Primary
MW-2-21	11/18/2021	6020A	Primary
MW-2-22	11/18/2021	Not received	Primary
MW-104	11/18/2021	Not received	Duplicate
EB_WATER_2211118	11/18/2021	Not received	Primary
Dug Well 2	11/17/2021	Not received	Primary

#### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3215193 listed the sample dates as 11/17/2021 and 11/18/2021. According to the COCs, the temperature of the cooler at receipt was 4°C. At receipt not all samples were accounted for. MW-2-07, MW-2-06 were analyzed past the specified method holding times for 8270D and 8270SIM; therefore, the affected samples are qualified NJ;HT or UJ;HT if result is ND.

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were provided for the SDG.

#### II. Initial Calibration

The initial calibration standards were not provided for the SDG.

#### III. Continuing Calibration

The continuing calibration standards were not provided for the SDG.

#### **IV. Blanks**

Three method blanks (3432366MB, 3432368MB, and 3432750MB) were analyzed for the samples in SDG 3215193. The method blanks did not have detections for any analytes; therefore, no qualification of the data is necessary.

#### **V. Surrogate Percent Recovery Compounds**

All reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3215193 met the QC criteria; therefore, no qualification of the data is necessary.

#### **VI. Matrix Spikes/ Matrix Spike Duplicates**

No samples were designated as the MS/MSD sample for SDG 3215193.

#### **VII. Laboratory Control Sample/ Laboratory Control Sample Duplicates**

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3215193. Percent recoveries were within acceptable QC limits; therefore, no qualification of the data is necessary.

#### **VIII. Regional Quality Assurance and Quality Control**

The designated field samples for SDG 3215193 were not received.

#### **IX. Completeness**

Prescribed field sampling of SDG 3215193 was completed according to the sampling design.

Laboratory analysis of SDG 3215193 is a portion of the intended SDG according to the COC. The larger group was analyzed as three separate groups based on changing holding times, analyses, and insufficient sample volumes. The overall analytical completeness score for the larger group from the COC is approximately 52.6%. SDG 3215193 analyzed 5/57 prescribed from the larger COC, roughly 8%.

#### **X. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

#### **XI. Internal Standards**

Internal standard area counts for the samples were not within the upper and lower quality control limits. An assessment of the data is necessary based on acceptable internal standard area counts.

**XII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. Discrepancies were identified in section 1.

**XIII. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

**XIV. System Performance**

A review of instrument quality control performance was not completed for the SDG.

**XV. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

SDG 3215193 analyzed 3/57 prescribed from the larger COC, roughly 8%. At receipt not all samples were accounted for. “NJ” or “UJ” flagged data should be considered qualitative.



**ALS Environmental**



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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

December 15, 2021

Ms. Rhonda Kay  
VHB - Vermont  
100 State Street  
Suite 600  
Montpelier, VT 05602

## Certificate of Analysis

Project Name:	<b>2021-Caneel Bay Resort, Virgin Islands</b>	Workorder:	<b>3215193</b>
Purchase Order:	<b>211101051</b>	Workorder ID:	<b>Caneel Bay USVI</b>

Dear Ms. Kay:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 23, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ben Deede

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Sarah S Leung  
Project Coordinator

### ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



**SAMPLE SUMMARY**

Workorder: 3215193 Caneel Bay USVI

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3215193001	MW-2-07	Water	11/17/2021 10:30	11/23/2021 09:49	Collected by Client
3215193002	MW-2-06	Water	11/18/2021 07:40	11/23/2021 09:49	Collected by Client
3215193003	MW-2-21	Water	11/18/2021 11:30	11/23/2021 09:49	Collected by Client
3215193004	MW-2-22	Water	11/18/2021 11:45	11/23/2021 09:49	Collected by Client
3215193005	MW-104	Water	11/18/2021 12:00	11/23/2021 09:49	Collected by Client
3215193006	EB_WATER-20211118	Water	11/18/2021 13:30	11/23/2021 09:49	Collected by Client
3215193007	Dug Well 2	Water	11/17/2021 14:30	11/23/2021 09:49	Collected by Client

---

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

## SAMPLE SUMMARY

Workorder: 3215193 Caneel Bay USVI

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



## PROJECT SUMMARY

Workorder: 3215193 Caneel Bay USVI

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### Workorder Comments

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Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

### Sample Comments

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**Lab ID:** 3215193001      **Sample ID:** MW-2-07      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8270.

**Lab ID:** 3215193002      **Sample ID:** MW-2-06      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8270.

**Lab ID:** 3215193005      **Sample ID:** MW-104      **Sample Type:** SAMPLE

The sample was extracted past the holding time for EPA method 8270.

---

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Vancouver Waterloo · Winnipeg · Yellowknife    **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York    **Mexico:** Monterrey



# ALS Environmental



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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3215193 Caneel Bay USVI

Lab ID: **3215193001**  
Sample ID: **MW-2-07**

Date Collected: 11/17/2021 10:30 Matrix: Water  
Date Received: 11/23/2021 09:49

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Acenaphthylene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Anthracene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Benzo(a)anthracene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Benzo(a)pyrene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Benzo(g,h,i)perylene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Benzo(k)fluoranthene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Chrysene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Fluoranthene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Fluorene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Naphthalene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Phenanthrene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Pyrene	ND	UJ:HT	ug/L	1.4	0.24	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	56.9	NJ:HT	%	24 - 116		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Nitrobenzene-d5 (S)	63.5	NJ:HT	%	32 - 125		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
Terphenyl-d14 (S)	86.9	NJ:HT	%	41 - 145		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:11	GEC	A
<b>SEMIVOLATILE SIM</b>										
Acenaphthene	0.15	NJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Acenaphthylene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Anthracene	0.028J	NJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Benzo(a)anthracene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Benzo(a)pyrene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Benzo(g,h,i)perylene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Benzo(k)fluoranthene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Chrysene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/L	0.068	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Fluoranthene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Fluorene	0.18	NJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Naphthalene	0.13	NJ:HT	ug/L	0.097	0.046	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Phenanthrene	0.23	NJ:HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A

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Workorder: 3215193 Caneel Bay USVI

Lab ID: **3215193001**

Date Collected: 11/17/2021 10:30

Matrix: Water

Sample ID: **MW-2-07**

Date Received: 11/23/2021 09:49

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	0.065J	NJ;HT	ug/L	0.097	0.0097	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	55	NJ;HT	%	29 - 112		8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
Fluoranthene-d10 (S)	78.3	NJ;HT	%	45 - 130		8270 SIM	12/8/21 09:30 CAC	12/10/21 21:20	GEC	A
<b>METALS</b>										
Lead, Total	ND	C	mg/L	0.0022	0.00074	SW846 6020A	12/9/21 21:15 SXC	12/10/21 11:45	RMD	B1

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Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3215193 Caneel Bay USVI

Lab ID: **3215193002**

Date Collected: 11/18/2021 07:40

Matrix: Water

Sample ID: **MW-2-06**

Date Received: 11/23/2021 09:49

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Acenaphthylene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Anthracene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Benzo(a)anthracene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Benzo(a)pyrene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Benzo(g,h,i)perylene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Benzo(k)fluoranthene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Chrysene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Fluoranthene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Fluorene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Naphthalene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Phenanthrene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Pyrene	ND	UJ:HT	ug/L	1.5	0.26	SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	70.3	NJ:HT	%	24 - 116		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Nitrobenzene-d5 (S)	80.7	NJ:HT	%	32 - 125		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
Terphenyl-d14 (S)	90.5	NJ:HT	%	41 - 145		SW846 8270D	12/8/21 09:30 CAC	12/10/21 09:37	GEC	A
<b>SEMIVOLATILE SIM</b>										
Acenaphthene	0.068J	NJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Acenaphthylene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Anthracene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Benzo(a)anthracene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Benzo(a)pyrene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Benzo(b)fluoranthene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Benzo(g,h,i)perylene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Benzo(k)fluoranthene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Chrysene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Dibenzo(a,h)anthracene	ND	UJ:HT	ug/L	0.071	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Fluoranthene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Fluorene	0.064J	NJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Indeno(1,2,3-cd)pyrene	ND	UJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Naphthalene	0.069J	NJ:HT	ug/L	0.10	0.049	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Phenanthrene	0.030J	NJ:HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A

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Workorder: 3215193 Caneel Bay USVI

Lab ID: **3215193002**

Date Collected: 11/18/2021 07:40

Matrix: Water

Sample ID: **MW-2-06**

Date Received: 11/23/2021 09:49

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND	NJ;HT	ug/L	0.10	0.010	8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	72.1	NJ;HT	%	29 - 112		8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
Fluoranthene-d10 (S)	84.4	NJ;HT	%	45 - 130		8270 SIM	12/8/21 09:30 CAC	12/10/21 21:48	GEC	A
<b>METALS</b>										
Lead, Total	ND	C	mg/L	0.0022	0.00074	SW846 6020A	12/9/21 21:15 SXC	12/10/21 11:47	RMD	C1

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Project Coordinator

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Workorder: 3215193 Caneel Bay USVI

Lab ID: **3215193003**

Date Collected: 11/18/2021 11:30

Matrix: Water

Sample ID: **MW-2-21**

Date Received: 11/23/2021 09:49

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>METALS</b>										
Arsenic, Total	ND	C	mg/L	0.0033	0.0011	SW846 6020A	12/9/21 21:15 SXC	12/10/21 11:49	RMD	C1
Barium, Total	0.22	C	mg/L	0.0056	0.0019	SW846 6020A	12/9/21 21:15 SXC	12/10/21 11:49	RMD	C1
Lead, Total	ND	C	mg/L	0.0022	0.00074	SW846 6020A	12/9/21 21:15 SXC	12/10/21 11:49	RMD	C1

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**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3215193 Caneel Bay USVI

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3215193001	MW-2-07	8270 SIM	SW846 3510C	
3215193001	MW-2-07	SW846 6020A	SW846 3015	
3215193001	MW-2-07	SW846 8270D	SW846 3510C	
3215193002	MW-2-06	8270 SIM	SW846 3510C	
3215193002	MW-2-06	SW846 6020A	SW846 3015	
3215193002	MW-2-06	SW846 8270D	SW846 3510C	
3215193003	MW-2-21	SW846 6020A	SW846 3015	

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## QUALITY CONTROL DATA

Workorder: 3215193 Caneel Bay USVI

**QC Batch:** EXTR/67472 **Analysis Method:** SW846 8270D  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3215193001, 3215193002

### METHOD BLANK: 3432366

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	1.5
Acenaphthylene	ND	ug/L	1.5
Anthracene	ND	ug/L	1.5
Benzo(a)anthracene	ND	ug/L	1.5
Benzo(a)pyrene	ND	ug/L	1.5
Benzo(b)fluoranthene	ND	ug/L	1.5
Benzo(g,h,i)perylene	ND	ug/L	1.5
Benzo(k)fluoranthene	ND	ug/L	1.5
Chrysene	ND	ug/L	1.5
Dibenzo(a,h)anthracene	ND	ug/L	1.5
Fluoranthene	ND	ug/L	1.5
Fluorene	ND	ug/L	1.5
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.5
Naphthalene	ND	ug/L	1.5
Phenanthrene	ND	ug/L	1.5
Pyrene	ND	ug/L	1.5
2-Fluorobiphenyl (S)	73.2	%	24 - 116
Nitrobenzene-d5 (S)	92	%	32 - 125
Terphenyl-d14 (S)	100	%	41 - 145

### LABORATORY CONTROL SAMPLE: 3432367

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	77	ug/L	50	38.5	36 - 130
Acenaphthylene	81.6	ug/L	50	40.8	39 - 130
Anthracene	83.8	ug/L	50	41.9	48 - 133
Benzo(a)anthracene	96	ug/L	50	48.0	51 - 127
Benzo(a)pyrene	94.6	ug/L	50	47.3	53 - 127
Benzo(b)fluoranthene	103	ug/L	50	51.4	53 - 131
Benzo(g,h,i)perylene	94.9	ug/L	50	47.4	54 - 131
Benzo(k)fluoranthene	101	ug/L	50	50.5	52 - 130
Chrysene	97.8	ug/L	50	48.9	50 - 131
Dibenzo(a,h)anthracene	99.5	ug/L	50	49.7	56 - 130
Fluoranthene	98.1	ug/L	50	49.1	49 - 132
Fluorene	81.1	ug/L	50	40.6	42 - 131

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**QUALITY CONTROL DATA**Workorder: 3215193 Caneel Bay USVI

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Indeno(1,2,3-cd)pyrene	94.9	ug/L	50	47.5	55 - 126
Naphthalene	71.9	ug/L	50	36.0	21 - 123
Phenanthrene	86.3	ug/L	50	43.1	46 - 131
Pyrene	96.7	ug/L	50	48.3	48 - 134
2-Fluorobiphenyl (S)	84.1	%			24 - 116
Nitrobenzene-d5 (S)	99.2	%			32 - 125
Terphenyl-d14 (S)	102	%			41 - 145

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## QUALITY CONTROL DATA

Workorder: 3215193 Caneel Bay USVI

QC Batch: EXTR/67473 Analysis Method: 8270 SIM

QC Batch Method: SW846 3510C

Associated Lab Samples: 3215193001, 3215193002

### METHOD BLANK: 3432368

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	0.10
Acenaphthylene	ND	ug/L	0.10
Anthracene	ND	ug/L	0.10
Benzo(a)anthracene	ND	ug/L	0.10
Benzo(a)pyrene	ND	ug/L	0.10
Benzo(b)fluoranthene	ND	ug/L	0.10
Benzo(g,h,i)perylene	ND	ug/L	0.10
Benzo(k)fluoranthene	ND	ug/L	0.10
Chrysene	ND	ug/L	0.10
Dibenzo(a,h)anthracene	ND	ug/L	0.070
Fluoranthene	ND	ug/L	0.10
Fluorene	ND	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10
Naphthalene	ND	ug/L	0.10
Phenanthrene	ND	ug/L	0.10
Pyrene	ND	ug/L	0.10
2-Methylnaphthalene-d10 (S)	75.3	%	29 - 112
Fluoranthene-d10 (S)	90.7	%	45 - 130

### LABORATORY CONTROL SAMPLE: 3432369

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	69.3	ug/L	1	0.69	46 - 121
Acenaphthylene	74.4	ug/L	1	0.74	49 - 122
Anthracene	74.3	ug/L	1	0.74	47 - 134
Benzo(a)anthracene	81.7	ug/L	1	0.82	51 - 141
Benzo(a)pyrene	76.1	ug/L	1	0.76	45 - 139
Benzo(b)fluoranthene	76	ug/L	1	0.76	48 - 147
Benzo(g,h,i)perylene	73.6	ug/L	1	0.74	43 - 153
Benzo(k)fluoranthene	75.9	ug/L	1	0.76	52 - 148
Chrysene	75.7	ug/L	1	0.76	52 - 144
Dibenzo(a,h)anthracene	80.1	ug/L	1	0.80	45 - 150
Fluoranthene	79.4	ug/L	1	0.79	51 - 149
Fluorene	74.8	ug/L	1	0.75	52 - 123
Indeno(1,2,3-cd)pyrene	79.4	ug/L	1	0.79	49 - 143

## ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**QUALITY CONTROL DATA**Workorder: 3215193 Caneel Bay USVI

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Naphthalene	61.5	ug/L	1	0.61	44 - 113
Phenanthrene	74.6	ug/L	1	0.75	50 - 128
Pyrene	81.3	ug/L	1	0.81	48 - 143
2-Methylnaphthalene-d10 (S)	73.1	%			29 - 112
Fluoranthene-d10 (S)	83.8	%			45 - 130

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**ALS Environmental Laboratory Locations Across North America**

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



## QUALITY CONTROL DATA

Workorder: 3215193 Caneel Bay USVI

**QC Batch:** MDIG/92889 **Analysis Method:** SW846 6020A  
**QC Batch Method:** SW846 3015  
**Associated Lab Samples:** 3215193001, 3215193002, 3215193003

### METHOD BLANK: 3432750

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/L	0.0033
Barium, Total	ND	mg/L	0.0056
Lead, Total	ND	mg/L	0.0022

### LABORATORY CONTROL SAMPLE: 3432751

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	102	mg/L	.22	0.23	80 - 120
Barium, Total	98.7	mg/L	2.2	2.2	80 - 120
Lead, Total	104	mg/L	.22	0.23	80 - 120

### LABORATORY CONTROL SAMPLE: 3432752

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	104	mg/L	.22	0.23	80 - 120
Barium, Total	100	mg/L	2.2	2.2	80 - 120
Lead, Total	104	mg/L	.22	0.23	80 - 120

## ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**Workorder: 3215193 Caneel Bay USVI

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Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3215193001	MW-2-07	SW846 3510C	EXTR/67472	SW846 8270D	SVMS/40582
3215193002	MW-2-06	SW846 3510C	EXTR/67472	SW846 8270D	SVMS/40582
3215193001	MW-2-07	SW846 3510C	EXTR/67473	8270 SIM	SVMS/40600
3215193002	MW-2-06	SW846 3510C	EXTR/67473	8270 SIM	SVMS/40600
3215193001	MW-2-07	SW846 3015	MDIG/92889	SW846 6020A	META/84593
3215193002	MW-2-06	SW846 3015	MDIG/92889	SW846 6020A	META/84593
3215193003	MW-2-21	SW846 3015	MDIG/92889	SW846 6020A	META/84593

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**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey





301 Filling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:   
ALS Quote 3215193

Client Name: VHB  
Address: 100 State Street, Suite 600, Montpelier, VT 05602  
Contact: Ben Deede  
Phone#: 401-447-8254  
Project Name#: Caneel Bay USVI  
Bill To: VHB, Montpelier, VT  
TAT ☒ Normal-Standard TAT is 10-12 business days.  
☐ Rush-Subject to ALS approval and surcharges.  
Date Required: ☒ X-Y bdeede@vhb.com, rkray@vhb.com Approved?  
Email? ☒ X-Y bdeede@vhb.com, rkray@vhb.com  
Fax? ☐ -Y No.:

Sample Description/Location (as it will appear on the lab report)	Data Collected mm/dd/yy	Time hh:mm	G or C	
			Matrix	Enter Number of Containers Per Sample or Field Results Below.
1 MW-2-07	11/17/21	10:30	G GW	1 ②
2 MW-2-09	11/17/21	11:45	G GW	1 ②
3 Dug Well 1	11/17/21	13:40	G GW	1 ②
4 Dug Well 2	11/17/21	14:30	G GW	1 ②
5 MW-2-06	11/18/21	07:40	G GW	1 ②
6 MW-2-21	11/18/21	11:30	G GW	1 ②
7 MW-2-22 + MS/MSD	11/18/21	11:45	G GW	1 ②
8 MW-104	11/18/21	12:00	G GW	1 ②
9 EB-WATER-20211118	11/18/21	13:30	G W	1 ②
10 Trip Blank	11/18/21	NA	G W	1 ②

SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)  
Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Ben Bliss VHB	11/17/21	11:00	Ben Bliss VHB	11/18/21	09:49
Federex					

\* G=Grab, C=Composite

\*\*Matrix: A=Air, DW=Drinking Water, GW=Groundwater, O=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

Container Type: CG P AG AG P  
Container Size: 40 ml 125 ml 1L 125 ml  
Residue: MeOH HNO3 HNO3  
ANALYSES/METHOD REQUESTED  
VOCs Lead PAH PAH, Pesticides Lead, Barium, Arsenic  
ALS Field Services: ☐ Pickup ☐ Labor  
☐ Composite Sampling ☐ Rental Equipment  
Other:  
Sample/COC Comments: Insufficient volume for 4 bottles  
Special Processing: USACE Navy  
State Samples Collected In: NY NJ PA NC  
Sample Disposal: Lab X Special  
Reportable to PADEP? Yes No X  
PWSID #  
EDDS: Format Type

ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057





301 Fulling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **2**  
ALS Quote #: **of 2**

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp: Therm ID:	
Contact: Ben Deede		Preservative	-	-	-	-	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						Purchase Order #: 21101051
Project Name#: Caneel Bay USVI		Enter Number of Containers Per Sample or Field Results Below.						Project Comments:
Bill To: VHB, Montpelier, VT								
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:						
Date Required: <input checked="" type="checkbox"/> X -Y bdeede@vhb.com, rkay@vhb.com Approved? Email? <input checked="" type="checkbox"/> X -Y bdeede@vhb.com, rkay@vhb.com Fax? <input type="checkbox"/> -Y No.:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	G or C	**Matrix	Sample/COC Comments		
11	IDW-Water	11/18/21	15:30	C	W	ISM Arsenic		
12	IDW-Soil	11/18/21	15:30	C	W	TCLP VOC, Pesticides, Metals		
13	IA-Ref-05 A	11/19/21	0450	C	S	TCLP VOC, SVOC, Pest, Metals		
14	IA-Ref-05 B	11/19/21	1000	C	S	TCLP VOC, SVOC, Pesticides, Metals		
15	IA-Ref-05 C	11/19/21	1100	C	S	TCLP VOC, SVOC, Pesticides, Metals		
16						TCLP VOC, SVOC, Pesticides, Metals		
17						TCLP VOC, SVOC, Pesticides, Metals		
18						TCLP VOC, SVOC, Pesticides, Metals		
19						TCLP VOC, SVOC, Pesticides, Metals		
20						TCLP VOC, SVOC, Pesticides, Metals		
SAMPLER COMMENTS: (Please Print): Ben Deede (BND), Ben Bilas (BRB)		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
3				4				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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1 Ben Deede VHB		11/18/21	1100	2				
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Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2				
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SAMPLER COMMENTS:		SAMPLER COMMENTS:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21						





301 Fulling Mill Road  
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

3215193

# ion of Sample Receipt Form

Client:

W

VHB - Vermont

Initials:

D/m

Date:

11/23/21

1. Were airbills / tracking numbers present and recorded?..... Tracking number: 855 4427 5936 NONE ☒ YES NO
2. Are Custody Seals on shipping containers intact?..... ☒ NONE YES NO
3. Are Custody Seals on sample containers intact?..... ☒ NONE YES NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☒ YES NO
- 5a. Does the COC contain sample locations?..... ☒ YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES NO
- 5c. Does the COC contain sample collectors name?..... ☒ YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... ☒ YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES NO
- 5g. Does the COC note the matrix of the sample(s)?..... ☒ YES NO
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... YES NO
8. Are all samples within holding times for the requested analyses?..... YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... YES NO
10. Did we receive trip blanks ( applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... YES NO
11. Were the samples received on ice?..... N/A YES ☒ NO
12. Were sample temperatures measured at 0.0-6.0°C..... YES NO
13. Are the samples DW matrix? If YES, fill out Reportable Drinking Water questions below..... YES NO
- 13a. Are the samples required for SDWA compliance reporting?..... YES ☒ NO
- 13b. Did the client provide a SDWA PWS ID#?..... N/A YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES NO

Cooler #:

Temperature (°C): 4 for Peth Cooler

Thermometer ID: 574

Radiological (µCi):

COMMENTS (Required for all NO responses above and any sample non-conformance):

Not all samples rec'd - see corrections on COC.  
lw12-24

inal determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease  
made in the analytical department at the time of or following the analysis

Rev 1/20/2020





301 Filling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 1 of 2  
ALS Quote #:

Client Name: VHB		Container Type	CG	P	AG	AG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	40 ml	125 ml	1L	1L	125 ml	W.O. Temp: <u>4</u> Therm ID: <u>57a</u>	
Contact: Ben Deede		Purpose/Notes	MeOH	HNO3	-	-	HNO3	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED							Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Enter Number of Containers Per Sample or Field Results Below.							Project Comments:
Bill To: VHB, Montpelier, VT									
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		VOCs		Lead	PAH	PAH, Pesticides	Lead, Barium, Arsenic	ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:	
Date Required: <input checked="" type="checkbox"/> X-Y bdeede@vnb.com, rkay@vnb.com Approved? Email? <input checked="" type="checkbox"/> X-Y No: <input type="checkbox"/> Y No: <input type="checkbox"/>		Matrix		Lead	PAH	PAH, Pesticides	Lead, Barium, Arsenic		
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm						Sample/COC Comments
1	MW-2-07	11/17/21	10:30	G	GW	3	1	2	Insufficient volume for 4 bottles
2	MW-2-09	11/17/21	11:45	G	GW	3	1	2	
3	Dug Well 1	11/17/21	13:40	G	GW	3			
4	Dug Well 2	11/17/21	14:30	G	GW	3			
5	MW-2-06	11/18/21	07:40	G	GW	3	1	2	
6	MW-2-21	11/18/21	11:30	G	GW	3			
7	MW-2-22 + MS/MSD	11/18/21	11:45	G	GW	9			
8	MW-104	11/18/21	12:00	G	GW	3			
9	EB-WATER-20211118	11/18/21	13:30	G	W	3			
10	Trip Blank	11/18/21	NA	G	W	3			
SAMPLER COMMENTS: Ben Deede (BND), Ben Bilas (BBB)									
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	Data	
1	Ben Bilas	11/18/21	10:00	2	Ben Bilas	11/18/21	09:49	Deliverables	
3	Ben Bilas			4	Ben Bilas	11/18/21	09:49	Reportable to PADEP?	
5				6				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7				8				PWSID #	
9				10				EDDS: Format Type	
* G=Grab; C=Composite **Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater									





301 Filling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **2**  
ALS Quote #: **2 of 2**

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp: Therm ID:	
Contact: Ben Deede		Preservative	-	-	-	-	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Enter Number of Containers Per Sample or Field Results Below.						Project Comments:
Bill To: VHB, Montpelier, VT								
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		Matrix						ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composites Sampling <input type="checkbox"/> Rental Equipment Other:
Date Required: Approved?								
Email? <input checked="" type="checkbox"/> Y bdeede@vhb.com, rkay@vhb.com		Enter Number of Containers Per Sample or Field Results Below.						Sample/COC Comments
Fax? <input type="checkbox"/> Y No.:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm					
11 IDW-Water		11/18/21	15:30	C	W	6		
12 IDW-Soil		11/18/21	15:30	C	W	1		
13 IA-Ref-05 A		11/19/21	04:50	C	S	1		
14 IA-Ref-05 B		11/19/21	10:00	C	S	1		
15 IA-Ref-05 C		11/19/21	10:10	C	S	1		
16								
17								
18								
19								
20								
SAMPLED BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)		Sampler Comments:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Bliss VHB		11/19/21	11:00	2				
3				4				
5				6				
7				8				
9				10				
* G=Grab; C=Composite		**Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Soil; WP=Wipe; WW=Wastewater						
EDDS: Format Type		other						

ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057



## SDG 3216264 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
MW-2-07	11/17/2021	8260D	Primary
MW-2-09	11/17/2021	8260D	Primary
MW-2-06	11/17/2021	8260D	Primary
Trip Blank	11/17/2021	8260D	Trip Blank
IDW-Soil	11/18/2021	7470A 8260C 6010C 8081B 8270E	Primary
IA-Ref-05 A	11/19/2021	6020A	Primary
IA-Ref-05 B	11/19/2021	6020A	Primary
IA-Ref-05 C	11/19/2021	6020A	Primary

### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3216264 listed the sample dates as 11/17/2021, 11/18/2021, and 11/19/2021. According to the COCs, the temperature of the cooler at receipt was 14°C. At receipt not all samples were accounted for. Qualification on sample results is warranted based on holding time and preservation requirements; therefore, all affected samples are qualified R;P or NJ;P as well as R;HT or NJ;HT.

All affected samples analyzed with methods 7470A, 6010C, and 6020A are qualified J;P or U;P. The usability of these data is due to the unlikelihood of total metals concentrations changing within the solid matrix and the samples' origin climate conditions.

### Volatiles Data Review

### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were provided for the SDG.

## **II. Initial Calibration**

The initial calibration standards were not provided for the SDG.

## **III. Continuing Calibration**

The continuing calibration standards were not provided for the SDG.

## **IV. Blanks**

One trip blank was analyzed for the samples in SDG 3216264. The trip blank did not have detections for any analytes; therefore, no qualification of the data is necessary.

Nine method blanks were analyzed for the samples in SDG 3216264. The method blanks did not have detections for any analytes; therefore, no qualification of the data is necessary.

## **V. Surrogate Percent Recovery Compounds**

Some reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3216264 did not meet QC criteria; therefore, the affected samples are qualified J;SUR.

## **VI. Matrix Spikes/ Matrix Spike Duplicates**

Sample IDW-Soil was used as the matrix spike (MS) and matrix spike duplicates (MSD). The MS/MSD utilized EPA 8081B to identify the interaction of the sample matrix with various pesticides. The percent recoveries were within QC limits; therefore, no qualification of the data is necessary. Relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

The MS/MSD utilized EPA 8270E, 6020A, 8260C, and 7470A to identify the interaction of the sample matrix with various SVOCs. The MS/MSD analysis was completed using a matrix that is not site derived and therefore cannot evaluate the precision. The affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if result is ND).

The MS/MSD utilized EPA 6010C to identify the interaction of the sample matrix with various pesticides. The percent recoveries were within QC limits; therefore, no qualification of the data is necessary. Relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

## **VII. Laboratory Control Sample**

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3216264 using EPA 8081B, 8270E, 6020A, 7470A, 6010C, 8260C, and 8260D. All percent recoveries were within acceptable QC limits; therefore, no qualification of the data is necessary.

### **VIII. Regional Quality Assurance and Quality Control**

No samples were designated as field duplicates in SDG 3216264.

### **IX. Completeness**

Prescribed field sampling of SDG 3216264 was completed according to the sampling design.

Laboratory analysis of SDG 3216264 is a portion of the intended SDG according to the COC. The larger group was analyzed as three separate groups based on changing holding times, analyses, and insufficient sample volumes. The overall analytical completeness score for the larger group from the COC is approximately 52.6%. SDG 3216264 analyzed 5/57 prescribed from the larger COC, roughly 8%.

### **X. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

### **XI. Internal Standards**

Internal standard area counts for the samples were not within the upper and lower quality control limits. An assessment of the data is necessary based on acceptable internal standard area counts.

### **XII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. Discrepancies were identified in section 1.

### **XIII. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

### **XIV. System Performance**

A review of instrument quality control performance was not completed for SDG 3216264.

### **XV. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

## Sample Delivery Group 3216264 – Data Review

SDG 3216264 analyzed 5/57 prescribed from the larger COC, roughly 8%. At receipt not all samples were accounted for. Multiple results were rejected based on hold times and/or preservation. "NJ" flagged data should be considered qualitative. Multiple J flags were also assigned; if associated with NJ;HT flag, data should be considered qualitative.



**ALS Environmental**



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December 21, 2021

Ms. Rhonda Kay  
VHB - Vermont  
100 State Street  
Suite 600  
Montpelier, VT 05602

## Certificate of Analysis

Project Name: **2021-Caneel Bay Resort, Virgin Islands**

Workorder: **3216264**

Purchase Order:

Workorder ID: **Caneel Bay USVI**

Dear Ms. Kay:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, December 7, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ben Deede

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Sarah S Leung  
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3216264 Caneel Bay USVI

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3216264001	MW-2-07	Water	11/17/2021 10:30	12/7/2021 09:23	Collected by Client
3216264002	MW-2-09	Water	11/17/2021 11:45	12/7/2021 09:23	Collected by Client
3216264003	MW-2-06	Water	11/17/2021 11:45	12/7/2021 09:23	Collected by Client
3216264004	Trip Blank	Water	11/17/2021 11:45	12/7/2021 09:23	Collected by Client
3216264005	IDW-Soil	Solid	11/18/2021 15:30	12/7/2021 09:23	Collected by Client
3216264006	IA-Ref-05 A	Solid	11/19/2021 09:50	12/7/2021 09:23	Collected by Client
3216264007	IA-Ref-05 B	Solid	11/19/2021 10:00	12/7/2021 09:23	Collected by Client
3216264008	IA-Ref-05 C	Solid	11/19/2021 10:10	12/7/2021 09:23	Collected by Client

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## SAMPLE SUMMARY

Workorder: 3216264 Caneel Bay USVI

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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**PROJECT SUMMARY**

Workorder: 3216264 Caneel Bay USVI

**Workorder Comments**

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

**Sample Comments****Lab ID:** 3216264001 **Sample ID:** MW-2-07 **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264002 **Sample ID:** MW-2-09 **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264003 **Sample ID:** MW-2-06 **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264004 **Sample ID:** Trip Blank **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264005 **Sample ID:** IDW-Soil **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

The sample was extracted past holding time of 28 days for EPA method 3510/8270.

**Lab ID:** 3216264006 **Sample ID:** IA-Ref-05 A **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264007 **Sample ID:** IA-Ref-05 B **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

**Lab ID:** 3216264008 **Sample ID:** IA-Ref-05 C **Sample Type:** SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264001**

Date Collected: 11/17/2021 10:30

Matrix: Water

Sample ID: **MW-2-07**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	R:P R:HT	ug/L	10.0	3.1	SW846 8260D		12/15/21 04:42	PDK	A
Benzene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 04:42	PDK	A
Bromochloromethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 04:42	PDK	A
Bromodichloromethane	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 04:42	PDK	A
Bromoform	ND	R:P R:HT	ug/L	1.0	0.40	SW846 8260D		12/15/21 04:42	PDK	A
Bromomethane	ND	R:P R:HT	ug/L	1.0	0.39	SW846 8260D		12/15/21 04:42	PDK	A
2-Butanone	ND	R:P R:HT	ug/L	10.0	1.8	SW846 8260D		12/15/21 04:42	PDK	A
Carbon Disulfide	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 04:42	PDK	A
Carbon Tetrachloride	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 04:42	PDK	A
Chlorobenzene	ND	R:P R:HT	ug/L	1.0	0.19	SW846 8260D		12/15/21 04:42	PDK	A
Chlorodibromomethane	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 04:42	PDK	A
Chloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A
Chloroform	ND	R:P R:HT	ug/L	1.0	0.21	SW846 8260D		12/15/21 04:42	PDK	A
Chloromethane	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 04:42	PDK	A
Cyclohexane	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 04:42	PDK	A
1,2-Dibromo-3-chloropropane	ND	R:P R:HT	ug/L	7.0	1.5	SW846 8260D		12/15/21 04:42	PDK	A
1,2-Dibromoethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 04:42	PDK	A
1,2-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.38	SW846 8260D		12/15/21 04:42	PDK	A
1,3-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.25	SW846 8260D		12/15/21 04:42	PDK	A
1,4-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 04:42	PDK	A
Dichlorodifluoromethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A
1,1-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 04:42	PDK	A
1,2-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 04:42	PDK	A
1,1-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 04:42	PDK	A
cis-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 04:42	PDK	A
trans-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 04:42	PDK	A
1,2-Dichloropropane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 04:42	PDK	A
cis-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 04:42	PDK	A
trans-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 04:42	PDK	A
Ethylbenzene	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 04:42	PDK	A
Freon 113	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 04:42	PDK	A
2-Hexanone	ND	R:P R:HT	ug/L	5.0	1.3	SW846 8260D		12/15/21 04:42	PDK	A
Isopropylbenzene	0.55J	NJ:P NJ:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 04:42	PDK	A
Methyl acetate	ND	R:P R:HT	ug/L	2.0	0.32	SW846 8260D		12/15/21 04:42	PDK	A
Methyl cyclohexane	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 04:42	PDK	A
Methyl t-Butyl Ether	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A

KAK 2/13/2022

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343**ANALYTICAL RESULTS**

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264001**

Date Collected: 11/17/2021 10:30

Matrix: Water

Sample ID: **MW-2-07**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	R:P R:HT	ug/L	5.0	1.5	SW846 8260D		12/15/21 04:42	PDK	A
Methylene Chloride	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 04:42	PDK	A
Styrene	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 04:42	PDK	A
1,1,2,2-Tetrachloroethane	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 04:42	PDK	A
Tetrachloroethene	ND	R:P R:HT	ug/L	1.0	0.35	SW846 8260D		12/15/21 04:42	PDK	A
Toluene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 04:42	PDK	A
Total Xylenes	ND	R:P R:HT	ug/L	3.0	0.66	SW846 8260D		12/15/21 04:42	PDK	A
1,2,3-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.93	SW846 8260D		12/15/21 04:42	PDK	A
1,2,4-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.82	SW846 8260D		12/15/21 04:42	PDK	A
1,1,1-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 04:42	PDK	A
1,1,2-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A
Trichloroethene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A
Trichlorofluoromethane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 04:42	PDK	A
Vinyl Chloride	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 04:42	PDK	A
o-Xylene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 04:42	PDK	A
mp-Xylene	ND	R:P R:HT	ug/L	2.0	0.52	SW846 8260D		12/15/21 04:42	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.9	NJ:P NJ:HT	%	62 - 133		SW846 8260D		12/15/21 04:42	PDK	A
4-Bromofluorobenzene (S)	110	NJ:P NJ:HT	%	79 - 114		SW846 8260D		12/15/21 04:42	PDK	A
Dibromofluoromethane (S)	75.8	NJ:P NJ:HT	%	J: SUR 78 - 116		SW846 8260D		12/15/21 04:42	PDK	A
Toluene-d8 (S)	93.2	NJ:P NJ:HT	%	76 - 127		SW846 8260D		12/15/21 04:42	PDK	A

Ms. Sarah S Leung  
Project Coordinator

KAK 2/13/2022

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264002**

Date Collected: 11/17/2021 11:45

Matrix: Water

Sample ID: **MW-2-09**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	4.0J	NJ:P NJ:HT	ug/L	10.0	3.1	SW846 8260D		12/15/21 05:04	PDK	A
Benzene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:04	PDK	A
Bromochloromethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:04	PDK	A
Bromodichloromethane	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 05:04	PDK	A
Bromoform	ND	R:P R:HT	ug/L	1.0	0.40	SW846 8260D		12/15/21 05:04	PDK	A
Bromomethane	ND	R:P R:HT	ug/L	1.0	0.39	SW846 8260D		12/15/21 05:04	PDK	A
2-Butanone	ND	R:P R:HT	ug/L	10.0	1.8	SW846 8260D		12/15/21 05:04	PDK	A
Carbon Disulfide	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:04	PDK	A
Carbon Tetrachloride	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:04	PDK	A
Chlorobenzene	ND	R:P R:HT	ug/L	1.0	0.19	SW846 8260D		12/15/21 05:04	PDK	A
Chlorodibromomethane	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 05:04	PDK	A
Chloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A
Chloroform	0.55J	NJ:P NJ:HT	ug/L	1.0	0.21	SW846 8260D		12/15/21 05:04	PDK	A
Chloromethane	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:04	PDK	A
Cyclohexane	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:04	PDK	A
1,2-Dibromo-3-chloropropane	ND	R:P R:HT	ug/L	7.0	1.5	SW846 8260D		12/15/21 05:04	PDK	A
1,2-Dibromoethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 05:04	PDK	A
1,2-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.38	SW846 8260D		12/15/21 05:04	PDK	A
1,3-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.25	SW846 8260D		12/15/21 05:04	PDK	A
1,4-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 05:04	PDK	A
Dichlorodifluoromethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A
1,1-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 05:04	PDK	A
1,2-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:04	PDK	A
1,1-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:04	PDK	A
cis-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:04	PDK	A
trans-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 05:04	PDK	A
1,2-Dichloropropane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:04	PDK	A
cis-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:04	PDK	A
trans-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:04	PDK	A
Ethylbenzene	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 05:04	PDK	A
Freon 113	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 05:04	PDK	A
2-Hexanone	ND	R:P R:HT	ug/L	5.0	1.3	SW846 8260D		12/15/21 05:04	PDK	A
Isopropylbenzene	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 05:04	PDK	A
Methyl acetate	ND	R:P R:HT	ug/L	2.0	0.32	SW846 8260D		12/15/21 05:04	PDK	A
Methyl cyclohexane	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 05:04	PDK	A
Methyl t-Butyl Ether	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264002**

Date Collected: 11/17/2021 11:45

Matrix: Water

Sample ID: **MW-2-09**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	R:P R:HT	ug/L	5.0	1.5	SW846 8260D		12/15/21 05:04	PDK	A
Methylene Chloride	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 05:04	PDK	A
Styrene	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:04	PDK	A
1,1,2,2-Tetrachloroethane	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 05:04	PDK	A
Tetrachloroethene	ND	R:P R:HT	ug/L	1.0	0.35	SW846 8260D		12/15/21 05:04	PDK	A
Toluene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:04	PDK	A
Total Xylenes	ND	R:P R:HT	ug/L	3.0	0.66	SW846 8260D		12/15/21 05:04	PDK	A
1,2,3-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.93	SW846 8260D		12/15/21 05:04	PDK	A
1,2,4-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.82	SW846 8260D		12/15/21 05:04	PDK	A
1,1,1-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 05:04	PDK	A
1,1,2-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A
Trichloroethene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A
Trichlorofluoromethane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:04	PDK	A
Vinyl Chloride	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 05:04	PDK	A
o-Xylene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:04	PDK	A
mp-Xylene	ND	R:P R:HT	ug/L	2.0	0.52	SW846 8260D		12/15/21 05:04	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	83.2	NJ:P NJ:HT	%	62 - 133		SW846 8260D		12/15/21 05:04	PDK	A
4-Bromofluorobenzene (S)	117	NJ:P NJ:HT	%	J:SUR 79 - 114		SW846 8260D		12/15/21 05:04	PDK	A
Dibromofluoromethane (S)	77.1	NJ:P NJ:HT	%	J:SUR 78 - 116		SW846 8260D		12/15/21 05:04	PDK	A
Toluene-d8 (S)	92.4	NJ:P NJ:HT	%	76 - 127		SW846 8260D		12/15/21 05:04	PDK	A

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264003**

Date Collected: 11/17/2021 11:45

Matrix: Water

Sample ID: **MW-2-06**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	22.5	NJ:P NJ:HT	ug/L	10.0	3.1	SW846 8260D		12/15/21 05:27	PDK	A
Benzene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:27	PDK	A
Bromochloromethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:27	PDK	A
Bromodichloromethane	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 05:27	PDK	A
Bromoform	ND	R:P R:HT	ug/L	1.0	0.40	SW846 8260D		12/15/21 05:27	PDK	A
Bromomethane	ND	R:P R:HT	ug/L	1.0	0.39	SW846 8260D		12/15/21 05:27	PDK	A
2-Butanone	ND	R:P R:HT	ug/L	10.0	1.8	SW846 8260D		12/15/21 05:27	PDK	A
Carbon Disulfide	0.24J	NJ:P NJ:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:27	PDK	A
Carbon Tetrachloride	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:27	PDK	A
Chlorobenzene	ND	R:P R:HT	ug/L	1.0	0.19	SW846 8260D		12/15/21 05:27	PDK	A
Chlorodibromomethane	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 05:27	PDK	A
Chloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A
Chloroform	ND	R:P R:HT	ug/L	1.0	0.21	SW846 8260D		12/15/21 05:27	PDK	A
Chloromethane	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:27	PDK	A
Cyclohexane	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:27	PDK	A
1,2-Dibromo-3-chloropropane	ND	R:P R:HT	ug/L	7.0	1.5	SW846 8260D		12/15/21 05:27	PDK	A
1,2-Dibromoethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 05:27	PDK	A
1,2-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.38	SW846 8260D		12/15/21 05:27	PDK	A
1,3-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.25	SW846 8260D		12/15/21 05:27	PDK	A
1,4-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/15/21 05:27	PDK	A
Dichlorodifluoromethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A
1,1-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/15/21 05:27	PDK	A
1,2-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:27	PDK	A
1,1-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:27	PDK	A
cis-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/15/21 05:27	PDK	A
trans-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 05:27	PDK	A
1,2-Dichloropropane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:27	PDK	A
cis-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/15/21 05:27	PDK	A
trans-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/15/21 05:27	PDK	A
Ethylbenzene	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 05:27	PDK	A
Freon 113	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/15/21 05:27	PDK	A
2-Hexanone	ND	R:P R:HT	ug/L	5.0	1.3	SW846 8260D		12/15/21 05:27	PDK	A
Isopropylbenzene	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 05:27	PDK	A
Methyl acetate	ND	R:P R:HT	ug/L	2.0	0.32	SW846 8260D		12/15/21 05:27	PDK	A
Methyl cyclohexane	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 05:27	PDK	A
Methyl t-Butyl Ether	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264003**

Date Collected: 11/17/2021 11:45

Matrix: Water

Sample ID: **MW-2-06**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	R:P R:HT	ug/L	5.0	1.5	SW846 8260D		12/15/21 05:27	PDK	A
Methylene Chloride	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/15/21 05:27	PDK	A
Styrene	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:27	PDK	A
1,1,2,2-Tetrachloroethane	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/15/21 05:27	PDK	A
Tetrachloroethene	ND	R:P R:HT	ug/L	1.0	0.35	SW846 8260D		12/15/21 05:27	PDK	A
Toluene	0.28J	NJ:P NJ:HT	ug/L	1.0	0.23	SW846 8260D		12/15/21 05:27	PDK	A
Total Xylenes	ND	R:P R:HT	ug/L	3.0	0.66	SW846 8260D		12/15/21 05:27	PDK	A
1,2,3-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.93	SW846 8260D		12/15/21 05:27	PDK	A
1,2,4-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.82	SW846 8260D		12/15/21 05:27	PDK	A
1,1,1-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/15/21 05:27	PDK	A
1,1,2-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A
Trichloroethene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A
Trichlorofluoromethane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/15/21 05:27	PDK	A
Vinyl Chloride	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/15/21 05:27	PDK	A
o-Xylene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/15/21 05:27	PDK	A
mp-Xylene	ND	R:P R:HT	ug/L	2.0	0.52	SW846 8260D		12/15/21 05:27	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85	NJ:P NJ:HT	%	62 - 133		SW846 8260D		12/15/21 05:27	PDK	A
4-Bromofluorobenzene (S)	112	NJ:P NJ:HT	%	79 - 114		SW846 8260D		12/15/21 05:27	PDK	A
Dibromofluoromethane (S)	78.8	NJ:P NJ:HT	%	78 - 116		SW846 8260D		12/15/21 05:27	PDK	A
Toluene-d8 (S)	94.3	NJ:P NJ:HT	%	76 - 127		SW846 8260D		12/15/21 05:27	PDK	A

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264004**  
Sample ID: **Trip Blank**

Date Collected: 11/17/2021 11:45 Matrix: Water  
Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	ND	R:P R:HT	ug/L	10.0	3.1	SW846 8260D		12/14/21 23:27	PDK	A
Benzene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/14/21 23:27	PDK	A
Bromochloromethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/14/21 23:27	PDK	A
Bromodichloromethane	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/14/21 23:27	PDK	A
Bromoform	ND	R:P R:HT	ug/L	1.0	0.40	SW846 8260D		12/14/21 23:27	PDK	A
Bromomethane	ND	R:P R:HT	ug/L	1.0	0.39	SW846 8260D		12/14/21 23:27	PDK	A
2-Butanone	ND	R:P R:HT	ug/L	10.0	1.8	SW846 8260D		12/14/21 23:27	PDK	A
Carbon Disulfide	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/14/21 23:27	PDK	A
Carbon Tetrachloride	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/14/21 23:27	PDK	A
Chlorobenzene	ND	R:P R:HT	ug/L	1.0	0.19	SW846 8260D		12/14/21 23:27	PDK	A
Chlorodibromomethane	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/14/21 23:27	PDK	A
Chloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A
Chloroform	ND	R:P R:HT	ug/L	1.0	0.21	SW846 8260D		12/14/21 23:27	PDK	A
Chloromethane	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/14/21 23:27	PDK	A
Cyclohexane	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/14/21 23:27	PDK	A
1,2-Dibromo-3-chloropropane	ND	R:P R:HT	ug/L	7.0	1.5	SW846 8260D		12/14/21 23:27	PDK	A
1,2-Dibromoethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/14/21 23:27	PDK	A
1,2-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.38	SW846 8260D		12/14/21 23:27	PDK	A
1,3-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.25	SW846 8260D		12/14/21 23:27	PDK	A
1,4-Dichlorobenzene	ND	R:P R:HT	ug/L	1.0	0.27	SW846 8260D		12/14/21 23:27	PDK	A
Dichlorodifluoromethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A
1,1-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.28	SW846 8260D		12/14/21 23:27	PDK	A
1,2-Dichloroethane	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/14/21 23:27	PDK	A
1,1-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/14/21 23:27	PDK	A
cis-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.32	SW846 8260D		12/14/21 23:27	PDK	A
trans-1,2-Dichloroethene	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/14/21 23:27	PDK	A
1,2-Dichloropropane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/14/21 23:27	PDK	A
cis-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.31	SW846 8260D		12/14/21 23:27	PDK	A
trans-1,3-Dichloropropene	ND	R:P R:HT	ug/L	1.0	0.29	SW846 8260D		12/14/21 23:27	PDK	A
Ethylbenzene	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/14/21 23:27	PDK	A
Freon 113	ND	R:P R:HT	ug/L	1.0	0.26	SW846 8260D		12/14/21 23:27	PDK	A
2-Hexanone	ND	R:P R:HT	ug/L	5.0	1.3	SW846 8260D		12/14/21 23:27	PDK	A
Isopropylbenzene	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/14/21 23:27	PDK	A
Methyl acetate	ND	R:P R:HT	ug/L	2.0	0.32	SW846 8260D		12/14/21 23:27	PDK	A
Methyl cyclohexane	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/14/21 23:27	PDK	A
Methyl t-Butyl Ether	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264004**

Date Collected: 11/17/2021 11:45

Matrix: Water

Sample ID: **Trip Blank**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Methyl-2-Pentanone(MIBK)	ND	R:P R:HT	ug/L	5.0	1.5	SW846 8260D		12/14/21 23:27	PDK	A
Methylene Chloride	ND	R:P R:HT	ug/L	1.0	0.45	SW846 8260D		12/14/21 23:27	PDK	A
Styrene	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/14/21 23:27	PDK	A
1,1,2,2-Tetrachloroethane	ND	R:P R:HT	ug/L	1.0	0.34	SW846 8260D		12/14/21 23:27	PDK	A
Tetrachloroethene	ND	R:P R:HT	ug/L	1.0	0.35	SW846 8260D		12/14/21 23:27	PDK	A
Toluene	ND	R:P R:HT	ug/L	1.0	0.23	SW846 8260D		12/14/21 23:27	PDK	A
Total Xylenes	ND	R:P R:HT	ug/L	3.0	0.66	SW846 8260D		12/14/21 23:27	PDK	A
1,2,3-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.93	SW846 8260D		12/14/21 23:27	PDK	A
1,2,4-Trichlorobenzene	ND	R:P R:HT	ug/L	2.0	0.82	SW846 8260D		12/14/21 23:27	PDK	A
1,1,1-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.22	SW846 8260D		12/14/21 23:27	PDK	A
1,1,2-Trichloroethane	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A
Trichloroethene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A
Trichlorofluoromethane	ND	R:P R:HT	ug/L	1.0	0.24	SW846 8260D		12/14/21 23:27	PDK	A
Vinyl Chloride	ND	R:P R:HT	ug/L	1.0	0.30	SW846 8260D		12/14/21 23:27	PDK	A
o-Xylene	ND	R:P R:HT	ug/L	1.0	0.33	SW846 8260D		12/14/21 23:27	PDK	A
mp-Xylene	ND	R:P R:HT	ug/L	2.0	0.52	SW846 8260D		12/14/21 23:27	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.4	NJ:P NJ:HT	%	62 - 133		SW846 8260D		12/14/21 23:27	PDK	A
4-Bromofluorobenzene (S)	106	NJ:P NJ:HT	%	79 - 114		SW846 8260D		12/14/21 23:27	PDK	A
Dibromofluoromethane (S)	78.3	NJ:P NJ:HT	%	78 - 116		SW846 8260D		12/14/21 23:27	PDK	A
Toluene-d8 (S)	91.1	NJ:P NJ:HT	%	76 - 127		SW846 8260D		12/14/21 23:27	PDK	A

Ms. Sarah S Leung  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264005**  
Sample ID: **IDW-Soil**

Date Collected: 11/18/2021 15:30 Matrix: Solid  
Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>TCLP EPA 1311 VOLATILE ORGANIC</b>										
Benzene	ND	R:P R:HT	ug/L	20.0	8.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
2-Butanone	ND	R:P R:HT	ug/L	200	60.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Carbon Tetrachloride	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Chlorobenzene	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Chloroform	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
1,2-Dichloroethane	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
1,1-Dichloroethene	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Tetrachloroethene	ND	R:P R:HT	ug/L	20.0	8.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Trichloroethene	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
Vinyl Chloride	ND	R:P R:HT	ug/L	20.0	4.0	SW846 8260C		12/14/21 02:45	PDK	U:MS U:MSD
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.3	NJ:P NJ:HT	%	62 - 133		SW846 8260C		12/14/21 02:45	PDK	J:MS J:MSD
4-Bromofluorobenzene (S)	101	NJ:P NJ:HT	%	79 - 114		SW846 8260C		12/14/21 02:45	PDK	J:MS J:MSD
Dibromofluoromethane (S)	92.5	NJ:P NJ:HT	%	78 - 116		SW846 8260C		12/14/21 02:45	PDK	J:MS J:MSD
Toluene-d8 (S)	91.4	NJ:P NJ:HT	%	76 - 127		SW846 8260C		12/14/21 02:45	PDK	J:MS J:MSD
<b>TCLP EPA 1311 SEMI-VOLATILES</b>										
mp-Cresol	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
o-Cresol	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
1,4-Dichlorobenzene	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
2,4-Dinitrotoluene	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Hexachlorobenzene	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Hexachlorobutadiene	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Hexachloroethane	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Nitrobenzene	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Pentachlorophenol	ND	R:P R:HT	ug/L	120		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
Pyridine	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
2,4,5-Trichlorophenol	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
2,4,6-Trichlorophenol	ND	R:P R:HT	ug/L	60.0		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	U:MS U:MSD
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	85.9	NJ:P NJ:HT	%	23 - 131		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD
2-Fluorobiphenyl (S)	65.8	NJ:P NJ:HT	%	24 - 116		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD
2-Fluorophenol (S)	71.4	NJ:P NJ:HT	%	10 - 85		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD
Nitrobenzene-d5 (S)	81.9	NJ:P NJ:HT	%	32 - 125		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD
Phenol-d5 (S)	75.8	NJ:P NJ:HT	%	J: SUR 7 - 56		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD
Terphenyl-d14 (S)	92.6	NJ:P NJ:HT	%	41 - 145		SW846 8270E	12/14/21 16:50 J1H	12/15/21 09:55	GEC	J:MS J:MSD

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: 3216264005

Date Collected: 11/18/2021 15:30

Matrix: Solid

Sample ID: IDW-Soil

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>TCLP EPA 1311 PESTICIDES</b>										
gamma-BHC	ND	R:P R:HT	ug/L	0.40	0.096	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Chlordane	ND	R:P R:HT	ug/L	10.0	1.6	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Endrin	ND	R:P R:HT	ug/L	0.40	0.12	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Heptachlor	ND	R:P R:HT	ug/L	0.40	0.12	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Heptachlor Epoxide	ND	R:P R:HT	ug/L	0.40	0.080	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Methoxychlor	ND	R:P R:HT	ug/L	0.40	0.27	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Toxaphene	ND	R:P R:HT	ug/L	20.0	3.8	SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
Decachlorobiphenyl (S)	62.6	NJ:P NJ:HT	%	30 - 140		SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Decachlorobiphenyl. (S)	67.3	NJ:P NJ:HT	%	30 - 140		SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Tetrachloro-m-xylene (S)	91.6	NJ:P NJ:HT	%	30 - 123		SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
Tetrachloro-m-xylene. (S)	108	NJ:P NJ:HT	%	30 - 123		SW846 8081B	12/15/21 18:00 J1H	12/16/21 10:06	KJH	A
<b>WET CHEMISTRY</b>										
Moisture	24.4	C	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	
Total Solids	75.6	C,2	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	
<b>TCLP EPA 1311 METALS</b>										
Arsenic, Total	ND	U:P	mg/L	0.13	0.041	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Barium, Total	ND	U:P	mg/L	2.5	0.84	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Cadmium, Total	ND	U:P	mg/L	0.0099	0.0033	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Chromium, Total	0.065	J:P	mg/L	0.025	0.0090	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Lead, Total	0.015J	J:P	mg/L	0.030	0.0099	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Mercury, Total	U:MS U:MSD	U:P	mg/L	0.0020	0.00066	SW846 7470A	12/16/21 14:30 A1S	12/16/21 17:41	A1S	B
Selenium, Total	ND	U:P	mg/L	0.099	0.033	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B
Silver, Total	ND	U:P	mg/L	0.020	0.0063	SW846 6010C	12/14/21 20:10 JSE	12/16/21 10:32	SRT	B

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Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264006**  
Sample ID: **IA-Ref-05 A**

Date Collected: 11/19/2021 09:50 Matrix: Solid  
Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>WET CHEMISTRY</b>										
Moisture	12.5	C	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
Total Solids	87.5	C,1	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
<b>METALS</b>										
Arsenic, Total	U:MS U:MSD 4.5	J:P	mg/kg	1.4	0.48	SW846 6020A	12/12/21 20:29 SXC	12/14/21 16:26	MO	A1

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264007**

Date Collected: 11/19/2021 10:00

Matrix: Solid

Sample ID: **IA-Ref-05 B**

Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>WET CHEMISTRY</b>										
Moisture	95.1	C	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
Total Solids	4.9	C,1	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
<b>METALS</b>										
Arsenic, Total	U:MS U:MSD 3.4	J:P	mg/kg	1.9	0.64	SW846 6020A	12/12/21 20:29 SXC	12/14/21 16:30	MO	A1

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

Lab ID: **3216264008**  
Sample ID: **IA-Ref-05 C**

Date Collected: 11/19/2021 10:10 Matrix: Solid  
Date Received: 12/7/2021 09:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>WET CHEMISTRY</b>										
Moisture	13.1	C	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
Total Solids	86.9	C,1	%	0.1	0.01	S2540G-11		12/10/21 08:10	KMS	A
<b>METALS</b>										
Arsenic, Total	U:MS U:MSD 4.3	J:P	mg/kg	1.6	0.54	SW846 6020A	12/12/21 20:29 SXC	12/14/21 16:33	MO	A1

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## ANALYTICAL RESULTS

Workorder: 3216264 Caneel Bay USVI

### PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>3216264001</b>	1	MW-2-07	SW846 8260D	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260D was outside of control limits. The % Recovery was reported as 75.8 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
<b>3216264002</b>	1	MW-2-09	SW846 8260D	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260D was outside of control limits. The % Recovery was reported as 77.1 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
<b>3216264002</b>	2	MW-2-09	SW846 8260D	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260D was outside of control limits. The % Recovery was reported as 117 and the control limits were 79 to 114. This result was reported at a dilution of 1.				
<b>3216264005</b>	1	IDW-Soil	SW846 8270E	Phenol-d5
The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 75.8 and the control limits were 7 to 56. This result was reported at a dilution of 1.				
<b>3216264005</b>	2	IDW-Soil	S2540G-11	Total Solids
The sample was analyzed for Total Solids outside of the initial 7 day holding time window				
<b>3216264006</b>	1	IA-Ref-05 A	S2540G-11	Total Solids
The sample was analyzed for Total Solids outside of the initial 7 day holding time window				
<b>3216264007</b>	1	IA-Ref-05 B	S2540G-11	Total Solids
The sample was analyzed for Total Solids outside of the initial 7 day holding time window				
<b>3216264008</b>	1	IA-Ref-05 C	S2540G-11	Total Solids
The sample was analyzed for Total Solids outside of the initial 7 day holding time window				

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**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3216264 Caneel Bay USVI

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3216264001	MW-2-07	SW846 8260D		
3216264002	MW-2-09	SW846 8260D		
3216264003	MW-2-06	SW846 8260D		
3216264004	Trip Blank	SW846 8260D		
3216264005	IDW-Soil	S2540G-11		
3216264005	IDW-Soil	SW846 6010C	SW846 3015	SW846 3511
3216264005	IDW-Soil	SW846 7470A	SW846 7470A	
3216264005	IDW-Soil	SW846 8081B	SW846 3511	
3216264005	IDW-Soil	SW846 8260C		SW846 3511
3216264005	IDW-Soil	SW846 8270E	SW846 3510C	
3216264006	IA-Ref-05 A	S2540G-11		
3216264006	IA-Ref-05 A	SW846 6020A	SW846 3051	
3216264007	IA-Ref-05 B	S2540G-11		
3216264007	IA-Ref-05 B	SW846 6020A	SW846 3051	
3216264008	IA-Ref-05 C	S2540G-11		
3216264008	IA-Ref-05 C	SW846 6020A	SW846 3051	

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

QC Batch: EXTR/67553

Analysis Method: SW846 8081B

QC Batch Method: SW846 3511

Associated Lab Samples: 3216264005

### METHOD BLANK: 3435340

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.020
Chlordane	ND	ug/L	0.50
Endrin	ND	ug/L	0.020
Heptachlor	ND	ug/L	0.020
Heptachlor Epoxide	ND	ug/L	0.020
Methoxychlor	ND	ug/L	0.020
Toxaphene	ND	ug/L	1.0
Decachlorobiphenyl (S)	71.3	%	30 - 140
Decachlorobiphenyl. (S)	75.9	%	30 - 140
Tetrachloro-m-xylene (S)	82	%	30 - 123
Tetrachloro-m-xylene. (S)	93.3	%	30 - 123

### LABORATORY CONTROL SAMPLE: 3435341

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
gamma-BHC	99	ug/L	.5	0.50	58 - 138
Chlordane		ug/L		ND	
Endrin	98.8	ug/L	.5	0.49	58 - 143
Heptachlor	88.7	ug/L	.5	0.44	41 - 124
Heptachlor Epoxide	90.6	ug/L	.5	0.45	62 - 131
Methoxychlor	80.4	ug/L	.5	0.40	56 - 140
Toxaphene		ug/L		ND	
Decachlorobiphenyl (S)	68.1	%			30 - 140
Decachlorobiphenyl. (S)	76.6	%			30 - 140
Tetrachloro-m-xylene (S)	81.8	%			30 - 123
Tetrachloro-m-xylene. (S)	95.3	%			30 - 123

MATRIX SPIKE: 3435342 DUPLICATE: 3435343 ORIGINAL: 3216264005

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
gamma-BHC	0	ug/L	10	8.986	9.0418	89.9	90.4	58 - 138	.62	30

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

Endrin	0	ug/L	10	8.703	9.164	87	91.6	58 - 143	5.16	28
Heptachlor	0	ug/L	10	7.2096	7.9419	72.1	79.4	41 - 124	9.67	28
Heptachlor Epoxide	0	ug/L	10	8.218	8.308	82.2	83.1	62 - 131	1.09	27
Methoxychlor	0	ug/L	10	6.717	7.6299	67.2	76.3	56 - 140	12.7	21
Decachlorobiphenyl (S)	80.6	%				80.6	79.8	30 - 140		
Decachlorobiphenyl. (S)	92	%				92	85.7	30 - 140		
Tetrachloro-m-xylene (S)	66.6	%				66.6	78.7	30 - 123		
Tetrachloro-m-xylene. (S)	78.4	%				78.4	93	30 - 123		

### METHOD BLANK: 3435339

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.40
Chlordane	ND	ug/L	10.0
Endrin	ND	ug/L	0.40
Heptachlor	ND	ug/L	0.40
Heptachlor Epoxide	ND	ug/L	0.40
Methoxychlor	ND	ug/L	0.40
Toxaphene	ND	ug/L	20.0
Decachlorobiphenyl (S)	95.5	%	30 - 140
Decachlorobiphenyl. (S)	109	%	30 - 140
Tetrachloro-m-xylene (S)	93	%	30 - 123
Tetrachloro-m-xylene. (S)	121	%	30 - 123

### METHOD BLANK: 3435937

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.40
Chlordane	ND	ug/L	10.0
Endrin	ND	ug/L	0.40
Heptachlor	ND	ug/L	0.40
Heptachlor Epoxide	ND	ug/L	0.40
Methoxychlor	ND	ug/L	0.40
Toxaphene	ND	ug/L	20.0
Decachlorobiphenyl (S)	107	%	30 - 140
Decachlorobiphenyl. (S)	111	%	30 - 140
Tetrachloro-m-xylene (S)	76.9	%	30 - 123
Tetrachloro-m-xylene. (S)	109	%	30 - 123

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

**QC Batch:** EXTR/67554 **Analysis Method:** SW846 8270E  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3216264005

### METHOD BLANK: 3435344

Parameter	Blank Result	Units	Reporting Limit
mp-Cresol	ND	ug/L	12.0
o-Cresol	ND	ug/L	12.0
1,4-Dichlorobenzene	ND	ug/L	12.0
2,4-Dinitrotoluene	ND	ug/L	12.0
Hexachlorobenzene	ND	ug/L	12.0
Hexachlorobutadiene	ND	ug/L	12.0
Hexachloroethane	ND	ug/L	12.0
Nitrobenzene	ND	ug/L	12.0
Pentachlorophenol	ND	ug/L	24.0
Pyridine	ND	ug/L	12.0
2,4,5-Trichlorophenol	ND	ug/L	12.0
2,4,6-Trichlorophenol	ND	ug/L	12.0
2,4,6-Tribromophenol (S)	98	%	23 - 131
2-Fluorobiphenyl (S)	87.5	%	24 - 116
2-Fluorophenol (S)	66.2	%	10 - 85
Nitrobenzene-d5 (S)	97.6	%	32 - 125
Phenol-d5 (S)	50.8	%	7 - 56
Terphenyl-d14 (S)	72.6	%	41 - 145

### LABORATORY CONTROL SAMPLE: 3435345

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
mp-Cresol	74.1	ug/L	400	296	28 - 128
o-Cresol	74.2	ug/L	400	297	34 - 136
1,4-Dichlorobenzene	57.5	ug/L	200	115	5 - 116
2,4-Dinitrotoluene	91.3	ug/L	200	183	49 - 138
Hexachlorobenzene	85	ug/L	200	170	59 - 109
Hexachlorobutadiene	59.4	ug/L	200	119	5 - 126
Hexachloroethane	47.7	ug/L	200	95.4	5 - 111
Nitrobenzene	76.3	ug/L	200	153	41 - 128
Pentachlorophenol	95.6	ug/L	400	382	41 - 149
Pyridine	57.4	ug/L	200	115	5 - 115
2,4,5-Trichlorophenol	92.9	ug/L	400	372	44 - 148
2,4,6-Trichlorophenol	82.9	ug/L	400	332	41 - 148
2,4,6-Tribromophenol (S)	92.1	%			23 - 131

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

2-Fluorobiphenyl (S)	80.5	%	24 - 116
2-Fluorophenol (S)	56.5	%	10 - 85
Nitrobenzene-d5 (S)	81.5	%	32 - 125
Phenol-d5 (S)	46.4	%	7 - 56
Terphenyl-d14 (S)	70	%	41 - 145

MATRIX SPIKE: 3435346 DUPLICATE: 3435347 ORIGINAL: 3216744001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
mp-Cresol	0	ug/L	2000	1718.93	1561.22	85.9	78.1	28 - 128	9.62	20
o-Cresol	0	ug/L	2000	1627.42	1462.79	81.4	73.1	34 - 136	10.7	23
1,4-Dichlorobenzene	0	ug/L	1000	477.998	337.988	47.8	33.8	5 - 116	34.3	30
2,4-Dinitrotoluene	0	ug/L	1000	885.498	844.659	88.5	84.5	49 - 138	4.72	22
Hexachlorobenzene	0	ug/L	1000	851.202	802.817	85.1	80.3	59 - 109	5.85	21
Hexachlorobutadiene	0	ug/L	1000	519.361	403.132	51.9	40.3	5 - 126	25.2	30
Hexachloroethane	0	ug/L	1000	396.229	270.67	39.6	27.1	5 - 111	37.7	30
Nitrobenzene	0	ug/L	1000	771.248	655.182	77.1	65.5	41 - 128	16.3	19
Pentachlorophenol	0	ug/L	2000	2008.52	1896.15	100	94.8	41 - 149	5.76	28
Pyridine	0	ug/L	1000	764.704	616.719	76.5	61.7	5 - 115	21.4	30
2,4,5-Trichlorophenol	0	ug/L	2000	1905.23	1779.16	95.3	89	44 - 148	6.84	23
2,4,6-Trichlorophenol	0	ug/L	2000	1684.72	1595.69	84.2	79.8	41 - 148	5.43	23
2,4,6-Tribromophenol (S)	92.1	%				92.1	85.5	23 - 131		
2-Fluorobiphenyl (S)	78.2	%				78.2	72.3	24 - 116		
2-Fluorophenol (S)	72.2	%				72.2	54.6	10 - 85		
Nitrobenzene-d5 (S)	81.5	%				81.5	69.2	32 - 125		
Phenol-d5 (S)	77.6	%				77.6*	67.6*	7 - 56		
Terphenyl-d14 (S)	94.1	%				94.1	89.3	41 - 145		

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

**QC Batch:** MDIG/92944 **Analysis Method:** SW846 6020A  
**QC Batch Method:** SW846 3051  
**Associated Lab Samples:** 3216264006, 3216264007, 3216264008

### METHOD BLANK: 3434238

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/kg	1.5

### LABORATORY CONTROL SAMPLE: 3434239

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	96.4	mg/kg	20	19.3	80 - 120

### MATRIX SPIKE: 3434240 DUPLICATE: 3434241 ORIGINAL: 3216204001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic, Total	.01526	mg/kg	1.2	1.14656	1.19455	90.7	94.5	75 - 125	4.1	20

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

QC Batch: MDIG/92955

Analysis Method: SW846 7470A

QC Batch Method: SW846 7470A

Associated Lab Samples: 3216264005

### METHOD BLANK: 3434605

Parameter	Blank Result	Units	Reporting Limit
Mercury, Total	ND	mg/L	0.0020

### LABORATORY CONTROL SAMPLE: 3434606

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Mercury, Total	94.5	mg/L	.002	0.0019J	85 - 115

### MATRIX SPIKE: 3434609 DUPLICATE: 3434610 ORIGINAL: 3215819001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury, Total	.00001	mg/L	.005	.00517	.00504	103	101	70 - 130	2.55	20

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

QC Batch: MDIG/92977

Analysis Method: SW846 6010C

QC Batch Method: SW846 3015

Associated Lab Samples: 3216264005

### METHOD BLANK: 3435317

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/L	0.13
Barium, Total	ND	mg/L	2.5
Cadmium, Total	ND	mg/L	0.0099
Chromium, Total	ND	mg/L	0.025
Lead, Total	ND	mg/L	0.030
Selenium, Total	ND	mg/L	0.099
Silver, Total	ND	mg/L	0.020

### LABORATORY CONTROL SAMPLE: 3435318

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	99	mg/L	.5	0.49	80 - 120
Barium, Total	98.4	mg/L	5	4.9	80 - 120
Cadmium, Total	100	mg/L	.5	0.50	80 - 120
Chromium, Total	95.7	mg/L	.5	0.48	80 - 120
Lead, Total	101	mg/L	.5	0.50	80 - 120
Selenium, Total	101	mg/L	5	5.0	80 - 120
Silver, Total	105	mg/L	.5	0.53	80 - 120

### MATRIX SPIKE: 3435319 DUPLICATE: 3435320 ORIGINAL: 3216264005

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic, Total	0	mg/L	.5	.4935	.50449	98.7	101	50 - 150	2.2	20
Barium, Total	.4	mg/L	5	5.27995	5.23995	97.6	96.8	50 - 150	.76	20
Cadmium, Total	.001	mg/L	.5	.51449	.51149	103	102	50 - 150	.58	20
Chromium, Total	.0655	mg/L	.5	.4915	.486	85.2	84.1	50 - 150	1.13	20
Lead, Total	.015	mg/L	.5	.50599	.50799	98.2	98.6	50 - 150	.39	20
Selenium, Total	.0115	mg/L	5	5.15495	5.17495	103	103	50 - 150	.39	20
Silver, Total	0	mg/L	.5	.426	.424	85.2	84.8	50 - 150	.47	20

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

**QC Batch:** VOMS/62109 **Analysis Method:** SW846 8260C  
**QC Batch Method:** SW846 8260C  
**Associated Lab Samples:** 3216264005

### METHOD BLANK: 3434818

Parameter	Blank Result	Units	Reporting Limit
Benzene	ND	ug/L	1.0
2-Butanone	ND	ug/L	10.0
Carbon Tetrachloride	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
Vinyl Chloride	ND	ug/L	1.0
1,2-Dichloroethane-d4 (S)	94.5	%	62 - 133
4-Bromofluorobenzene (S)	105	%	79 - 114
Dibromofluoromethane (S)	87.6	%	78 - 116
Toluene-d8 (S)	93.4	%	76 - 127

### LABORATORY CONTROL SAMPLE: 3434819

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Benzene	110	ug/L	20	22.0	80 - 124
2-Butanone	88.3	ug/L	100	88.3	50 - 152
Carbon Tetrachloride	106	ug/L	20	21.1	62 - 132
Chlorobenzene	99.3	ug/L	20	19.9	85 - 117
Chloroform	108	ug/L	20	21.6	78 - 122
1,2-Dichloroethane	111	ug/L	20	22.2	70 - 133
1,1-Dichloroethene	112	ug/L	20	22.3	63 - 128
Tetrachloroethene	92.8	ug/L	20	18.6	72 - 124
Trichloroethene	103	ug/L	20	20.6	77 - 124
Vinyl Chloride	98.5	ug/L	20	19.7	27 - 138
1,2-Dichloroethane-d4 (S)	94.9	%			62 - 133
4-Bromofluorobenzene (S)	101	%			79 - 114
Dibromofluoromethane (S)	90.3	%			78 - 116
Toluene-d8 (S)	92.9	%			76 - 127

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

MATRIX SPIKE: 3434837 DUPLICATE: 3434838 ORIGINAL: 3216558001

\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	0	ug/L	400	479.16	449.878	120	112	80 - 124	6.3	26
2-Butanone	1622.15	ug/L	2000	3689.68	3494.52	103	93.6	50 - 152	5.43	16
Carbon Tetrachloride	0	ug/L	400	461.85	432.68	115	108	62 - 132	6.52	17
Chlorobenzene	0	ug/L	400	396.474	364.687	99.1	91.2	85 - 117	8.35	15
Chloroform	0	ug/L	400	469.244	434.322	117	109	78 - 122	7.73	16
1,2-Dichloroethane	0	ug/L	400	470.978	436.011	118	109	70 - 133	7.71	19
1,1-Dichloroethene	0	ug/L	400	493.691	464.579	123	116	63 - 128	6.08	21
Tetrachloroethene	0	ug/L	400	386.127	348.757	96.5	87.2	72 - 124	10.2	38
Trichloroethene	0	ug/L	400	450.045	419.4	113	105	77 - 124	7.05	18
Vinyl Chloride	0	ug/L	400	443.266	412.722	111	103	27 - 138	7.14	40
1,2-Dichloroethane-d4 (S)	98.1	%				98.1	95.9	62 - 133		
4-Bromofluorobenzene (S)	101	%				101	98.5	79 - 114		
Dibromofluoromethane (S)	92.4	%				92.4	88.3	78 - 116		
Toluene-d8 (S)	87.4	%				87.4	83.9	76 - 127		

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

**QC Batch:** VOMS/62117 **Analysis Method:** SW846 8260D

**QC Batch Method:** SW846 8260D

**Associated Lab Samples:** 3216264001, 3216264002, 3216264003, 3216264004

METHOD BLANK: 3435408

Parameter	Blank Result	Units	Reporting Limit
Acetone	ND	ug/L	10.0
Benzene	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
2-Butanone	ND	ug/L	10.0
Carbon Disulfide	ND	ug/L	1.0
Carbon Tetrachloride	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
Chlorodibromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Cyclohexane	ND	ug/L	1.0
1,2-Dibromo-3-chloropropane	ND	ug/L	7.0
1,2-Dibromoethane	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
Dichlorodifluoromethane	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
cis-1,3-Dichloropropene	ND	ug/L	1.0
trans-1,3-Dichloropropene	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Freon 113	ND	ug/L	1.0
2-Hexanone	ND	ug/L	5.0
Isopropylbenzene	ND	ug/L	1.0
Methyl acetate	ND	ug/L	2.0
Methyl cyclohexane	ND	ug/L	1.0
Methyl t-Butyl Ether	ND	ug/L	1.0
4-Methyl-2-Pentanone(MIBK)	ND	ug/L	5.0

## ALS Environmental Laboratory Locations Across North America

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### QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

Methylene Chloride	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
Total Xylenes	ND	ug/L	3.0
1,2,3-Trichlorobenzene	ND	ug/L	2.0
1,2,4-Trichlorobenzene	ND	ug/L	2.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
Vinyl Chloride	ND	ug/L	1.0
o-Xylene	ND	ug/L	1.0
mp-Xylene	ND	ug/L	2.0
1,2-Dichloroethane-d4 (S)	88.2	%	62 - 133
4-Bromofluorobenzene (S)	107	%	79 - 114
Dibromofluoromethane (S)	81	%	78 - 116
Toluene-d8 (S)	90.4	%	76 - 127

#### LABORATORY CONTROL SAMPLE: 3435409

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acetone	128	ug/L	100	128	40 - 151
Benzene	103	ug/L	20	20.6	80 - 124
Bromochloromethane	94.1	ug/L	20	18.8	73 - 117
Bromodichloromethane	103	ug/L	20	20.5	79 - 126
Bromoform	99.6	ug/L	20	19.9	70 - 123
Bromomethane	95.5	ug/L	20	19.1	45 - 148
2-Butanone	75.9	ug/L	100	75.9	50 - 152
Carbon Disulfide	99.1	ug/L	20	19.8	57 - 131
Carbon Tetrachloride	98.1	ug/L	20	19.6	62 - 132
Chlorobenzene	94.9	ug/L	20	19.0	85 - 117
Chlorodibromomethane	102	ug/L	20	20.5	77 - 122
Chloroethane	96.3	ug/L	20	19.3	51 - 142
Chloroform	100	ug/L	20	20.0	78 - 122
Chloromethane	97.8	ug/L	20	19.6	38 - 156
Cyclohexane	106	ug/L	20	21.2	66 - 130
1,2-Dibromo-3-chloropropane	93.7	ug/L	20	18.7	59 - 133
1,2-Dibromoethane	103	ug/L	20	20.5	80 - 124
1,2-Dichlorobenzene	91.8	ug/L	20	18.4	82 - 118
1,3-Dichlorobenzene	93.2	ug/L	20	18.6	81 - 118
1,4-Dichlorobenzene	92.3	ug/L	20	18.5	81 - 116
Dichlorodifluoromethane	76.9	ug/L	20	15.4	17 - 166

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

1,1-Dichloroethane	101	ug/L	20	20.2	78 - 124
1,2-Dichloroethane	105	ug/L	20	21.0	70 - 133
1,1-Dichloroethene	106	ug/L	20	21.2	63 - 128
cis-1,2-Dichloroethene	102	ug/L	20	20.5	78 - 125
trans-1,2-Dichloroethene	103	ug/L	20	20.5	71 - 122
1,2-Dichloropropane	101	ug/L	20	20.2	81 - 127
cis-1,3-Dichloropropene	94.6	ug/L	20	18.9	81 - 121
trans-1,3-Dichloropropene	88	ug/L	20	17.6	78 - 126
Ethylbenzene	97.3	ug/L	20	19.5	80 - 124
Freon 113	105	ug/L	20	21.0	50 - 130
2-Hexanone	109	ug/L	100	109	65 - 154
Isopropylbenzene	101	ug/L	20	20.1	73 - 129
Methyl acetate	97.3	ug/L	20	19.5	70 - 130
Methyl cyclohexane	103	ug/L	20	20.5	70 - 130
Methyl t-Butyl Ether	103	ug/L	20	20.6	69 - 115
4-Methyl-2-Pentanone(MIBK)	112	ug/L	100	112	71 - 146
Methylene Chloride	102	ug/L	20	20.4	76 - 121
Styrene	99.1	ug/L	20	19.8	79 - 123
1,1,2,2-Tetrachloroethane	102	ug/L	20	20.4	74 - 135
Tetrachloroethene	101	ug/L	20	20.2	72 - 124
Toluene	103	ug/L	20	20.7	80 - 125
Total Xylenes	98.4	ug/L	60	59.0	79 - 125
1,2,3-Trichlorobenzene	85.5	ug/L	20	17.1	61 - 126
1,2,4-Trichlorobenzene	86.3	ug/L	20	17.3	67 - 123
1,1,1-Trichloroethane	103	ug/L	20	20.5	66 - 130
1,1,2-Trichloroethane	100	ug/L	20	20.1	82 - 126
Trichloroethene	96.6	ug/L	20	19.3	77 - 124
Trichlorofluoromethane	92.2	ug/L	20	18.4	38 - 123
Vinyl Chloride	87.7	ug/L	20	17.5	27 - 138
o-Xylene	94.1	ug/L	20	18.8	79 - 124
mp-Xylene	100	ug/L	40	40.2	79 - 125
1,2-Dichloroethane-d4 (S)	90	%			62 - 133
4-Bromofluorobenzene (S)	98.3	%			79 - 114
Dibromofluoromethane (S)	83.6	%			78 - 116
Toluene-d8 (S)	89.9	%			76 - 127

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## QUALITY CONTROL DATA

Workorder: 3216264 Caneel Bay USVI

**QC Batch:** WETC/263758 **Analysis Method:** S2540G-11  
**QC Batch Method:** S2540G-11  
**Associated Lab Samples:** 3216264005, 3216264006, 3216264007, 3216264008

SAMPLE DUPLICATE: 3433408 ORIGINAL: 3214648001					
Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	80.2884	%	80.6398	.44	10
Total Solids	19.7115	%	19.3601	1.8	5

SAMPLE DUPLICATE: 3433409 ORIGINAL: 3214930001					
Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	81.5249	%	82.4561	1.14	10
Total Solids	18.475	%	17.5438	5.17*	5

SAMPLE DUPLICATE: 3433410 ORIGINAL: 3216214004					
Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	30.8698	%	35.5555	14.1*	10
Total Solids	69.1301	%	64.4444	7.02*	5

SAMPLE DUPLICATE: 3433411 ORIGINAL: 3216264007					
Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	95.1484	%	95.1077	.04	10
Total Solids	4.8515	%	4.8922	.84	5

SAMPLE DUPLICATE: 3433412 ORIGINAL: 3216365001					
Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	97.3121	%	97.2793	.03	10
Total Solids	2.6878	%	2.7206	1.21	5

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**QUALITY CONTROL DATA**

Workorder: 3216264 Caneel Bay USVI

SAMPLE DUPLICATE: 3433413 ORIGINAL: 3216395001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	9.1155	%	11.2507	21*	10
Total Solids	90.8844	%	88.7492	2.38	5

SAMPLE DUPLICATE: 3433414 ORIGINAL: 3216500001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	5.4441	%	5.4726	.52	10
Total Solids	94.5558	%	94.5273	.03	5

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3216264 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3216264005	IDW-Soil			S2540G-11	WETC/263758
3216264006	IA-Ref-05 A			S2540G-11	WETC/263758
3216264007	IA-Ref-05 B			S2540G-11	WETC/263758
3216264008	IA-Ref-05 C			S2540G-11	WETC/263758
3216264006	IA-Ref-05 A	SW846 3051	MDIG/92944	SW846 6020A	META/84649
3216264007	IA-Ref-05 B	SW846 3051	MDIG/92944	SW846 6020A	META/84649
3216264008	IA-Ref-05 C	SW846 3051	MDIG/92944	SW846 6020A	META/84649
3216264005	IDW-Soil	SW846 7470A	MDIG/92955	SW846 7470A	META/84715
3216264005	IDW-Soil			SW846 8260C	VOMS/62109
3216264005	IDW-Soil	SW846 3015	MDIG/92977	SW846 6010C	META/84684
3216264005	IDW-Soil	SW846 3511	EXTR/67553	SW846 8081B	SVGC/62775
3216264005	IDW-Soil	SW846 3510C	EXTR/67554	SW846 8270E	SVMS/40631
3216264001	MW-2-07			SW846 8260D	VOMS/62117
3216264002	MW-2-09			SW846 8260D	VOMS/62117
3216264003	MW-2-06			SW846 8260D	VOMS/62117
3216264004	Trip Blank			SW846 8260D	VOMS/62117

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Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.



3216264

COC #:

ALS Quote

Client Name: VHB		Container Type	CG	P	AG	P		
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	40 ml	125 ml	1 L	125 ml		
Contact: Ben Deede		Preservative	MeOH	HNO3	-	HNO3		
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						
Project Name#: Caneel Bay USVI								
Bill To: VHB, Montpelier, VT								
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.								
Date Required:								
Email? <input checked="" type="checkbox"/> X-Y bdeede@vhb.com, rkay@vhb.com								
Fax? <input type="checkbox"/> -Y No.:								
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	Matrix	VOCs	Lead	PAH	PAH, Pesticides	Lead, Barium, Arsenic
1 MW-2-07	11/17/21	10:30	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
2 MW-2-09	11/17/21	11:45	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
3 Dug Well 1	11/17/21	13:40	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
4 Dug Well 2	11/17/21	14:30	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
5 MW-2-06	11/18/21	07:40	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
6 MW-2-21	11/18/21	11:30	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
7 MW-2-22 + MS/MSD	11/18/21	11:45	GW	9	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
8 MW-104	11/18/21	12:00	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
9 EB-WATER-20211118	11/18/21	13:30	GW	3	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21	AMDE 12/14/21
10 Trip Blank	11/18/21	NA	GW	3				
SAMPLER COMMENTS: Ben Deede (BND), Ben Bilas (BRB)								
Relinquished By / Company Name	Date	Time	Received By / Company Name		Date	Time		
Ben Bilas VHB	11/14/21	11:00	2 Fed Ex					
Fed Ex			4 GAGGARD / ALS		12/14/21	9:23		
			6					
			8					
			10					
* G-Grab; C=Composite			**Matrix: - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; Other Liquid; SL=Sludge; SO=Soil; WP=Wiper; WW=Wastewater					

(completed by Receiving Lab)

W.O. Temp: 14° Therm ID: 570

Courier/Tracking #:

Purchase Order #: 211101051

Project Comments:

ALS Field Services: ☐ Pickup ☐ Labor  
☐ Composite Sampling ☐ Rental Equipment  
 Other:

Sample/COC Comments

Insufficient volume for 4 bottles

<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD	Special Processing USACE <input type="checkbox"/> Navy <input type="checkbox"/> Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>	State Samples Collected In NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>
Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	PWSID #	EDDS: Format Type





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F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **2**  
ALS Quote #: **of 2**

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp: 74° Therm ID: 570	
Contact: Ben Deede		Perturbative	-	-	-	-	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Project Comments:						
Bill To: VHB, Montpelier, VT		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.								
Date Required: Approved?								
Email? <input checked="" type="checkbox"/> -Y bdeede@vnb.com, rkay@vnb.com								
Fax? <input type="checkbox"/> -Y No:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.		Sample/COC Comments		
11	IDW-Water	11/18/21	15:30	W	1	1		
12	IDW-Soil	11/18/21	15:30	W	1	1		
13	IA-Ref-05 A	11/19/21	0450	C		1		
14	IA-Ref-05 B	11/19/21	1000	C		1		
15	IA-Ref-05 C	11/19/21	1010	C		1		
16								
17								
18								
19								
20								
SAMPLER COMMENTS: (Please Print): Ben Deede (BND), Ben Bliss (BRB)								
Relinquished By / Company Name		Date	Time	Received By / Company Name	Date	Time	State Samples Collected In	
1 Ben Bliss VHB		11/18/21	1400	2 Fed Ex	12/17/21	9:23	USACE <input type="checkbox"/> Navy <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>	
3 Fed Ex				4 Caneel Bay - ALS			Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
5				6			Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7				8			PWSID #	
9				10			EDDS: Formal Type	

\* G=Grab, C=Composite \*\*Matrix - Al=Air, DW=Drinking Water, GW=Groundwater, Ol=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulfilling Mill Road, Middletown, PA 17057

Rev 11/18





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F: (717) 944-1430

3216264

## Condition of Sample Receipt Form

Client: VHB - Vermont

Initials:

AMRF

Date:

12/7/21

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES ☐ NO  
Tracking number: 8128 4626 3385
2. Are Custody Seals on shipping containers intact?..... ☒ NONE ☐ YES ☐ NO
3. Are Custody Seals on sample containers intact?..... ☒ NONE ☐ YES ☐ NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES ☐ NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☐ YES ☒ NO
- 5a. Does the COC contain sample locations?..... ☒ YES ☐ NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES ☐ NO
- 5c. Does the COC contain sample collectors name?..... ☒ YES ☐ NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... - = UNP ☐ YES ☒ NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES ☐ NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES ☐ NO
- 5g. Does the COC note the matrix of the sample(s)?..... ☒ YES ☐ NO
6. Are all aqueous samples requiring preservation preserved correctly?<sup>1</sup>..... N/A ☒ YES ☐ NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... ☒ YES ☐ NO
8. Are all samples within holding times for the requested analyses?..... ☒ YES ☐ NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... ☐ YES ☒ NO\*
10. Did we receive trip blanks ( applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... N/A ☒ YES ☐ NO
11. Were the samples received on ice?..... ☐ YES ☒ NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☐ YES ☒ NO
13. Are the samples DW matrix? IF YES, fill out Reportable Drinking Water questions below..... ☐ YES ☒ NO
- 13a. Are the samples required for SDWA compliance reporting?..... N/A ☐ YES ☐ NO
- 13b. Did the client provide a SDWA PWS ID#?..... N/A ☐ YES ☐ NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A ☐ YES ☐ NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... N/A ☐ YES ☐ NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A ☐ YES ☐ NO

Cooler #: \_\_\_\_\_

Temperature (°C): 14°

Thermometer ID: 570

Radiological (µCi): \_\_\_\_\_

COMMENTS (Required for all NO responses above and any sample non-conformance):

Some vials have large headspaces

<sup>1</sup>Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



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**CHAIN OF CUSTODY/  
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ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **1**  
of  
2  
ALS Quote #:

Client Name: VHB		Container Type	CG	P	AG	P	Receipt Information (completed by Receiving Lab)		
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	40 ml	125 ml	1 L	125 ml	W.O. Temp: <u>13°</u> Therm ID: <u>570</u>		
Contact: Ben Deede		Preservative	MeOH	HNO3	-	HNO3	Courier/Tracking #:		
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						Purchase Order #: 211101051	
Project Name#: Caneel Bay USVI		<div style="display: flex; justify-content: space-around;"> <div>PAH, Pesticides</div> <div>Lead, Barium, Arsenic</div> </div>						Project Comments:	
Bill To: VHB, Montpelier, VT									
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.									
Data Required: <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rday@vhb.com Email? <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rday@vhb.com Fax? <input type="checkbox"/> -Y No.:									
Sample Description/Location (as it will appear on the lab report)		Data Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.			Sample/COC Comments		
1	MW-2-07	11/17/21	10:30	G	GW	3	1	2	Insufficient volume for 4 bottles
2	MW-2-09	11/17/21	11:45	G	GW	3	1	2	
3	Dug Well 1	11/17/21	13:40	G	GW	3		4	
4	Dug Well 2	11/17/21	14:30	G	GW	3		4	
5	MW-2-06	11/18/21	07:40	G	GW	3	1	2	
6	MW-2-21	11/18/21	11:30	G	GW	3		3	
7	MW-2-22 + MS/MSD	11/18/21	11:45	G	GW	9		12	
8	MW-104	11/18/21	12:00	G	GW	3		4	
9	EB-WATER-20211118	11/18/21	13:30	G	W	3		4	
10	Trip Blank	11/18/21	NA	G	W	3			
SAMPLER COMMENTS: Ben Deede (BND), Ben Bilas (BRB)									
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	State Samples Collected in	
1 Ben Bilas VHB		11/18/21	11:00	2 Fed Ex		12/2/21	9:23	<div style="display: flex; justify-content: space-around;"> <div> <input checked="" type="checkbox"/> Standard  <input type="checkbox"/> CLP-like  <input type="checkbox"/> USACE/DOD </div> <div> <input type="checkbox"/> USACE  <input type="checkbox"/> Navy  <input type="checkbox"/> Special </div> </div>	
3 Fed Ex				4 Ben Bilas VHB				<div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> Reportable to PADEP?  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Special </div> </div>	
5				6				<div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> Reportable to PADEP?  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Special </div> </div>	
7				8				<div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> Reportable to PADEP?  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Special </div> </div>	
9				10				<div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> Reportable to PADEP?  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Special </div> </div>	
EDDS: Format Type: _____									





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Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **2**  
of  
2  
ALS Quote #:

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp: 13 Therm ID: 57C	
Contact: Ben Deede		Preservative	.	.	.	.	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						Purchase Order #: 211101051
Project Name#: Caneel Bay USVI		Project Comments:						
Bill To: VHB, Montpelier, VT		TCLP VOC						ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		TCLP SVOC, Pesticides, Metals						<input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment
<input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		ISM Arsenic						Other:
Data Required: <input checked="" type="checkbox"/> Approved?		Enter Number of Containers Per Sample or Field Results Below.						Sample/COC Comments
Email? <input checked="" type="checkbox"/> I-Y bdeede@vhb.com, rlay@vhb.com								
Fax? <input type="checkbox"/> -Y No.:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm					
11 IDW-Water		11/18/21	15:30	C	W	6		
12 IDW-Soil		11/18/21	15:30	C	W	1		
13 IA-Ref-05 A		11/19/21	0950	C	S	1		
14 IA-Ref-05 B		11/19/21	1000	C	S	1		
15 IA-Ref-05 C		11/19/21	1010	C	S	1		
16								
17								
18								
19								
20								
SAMPLER BY (Please Print): Ben Deede (BND), Ben Bilas (BRB)		Sampler Comments:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Deede VHB		11/18/21	1100	2 Fed Ex				
3 Fed Ex				4 Greg W Roberts		12/14/21	23	
5				6				
7				8				
9				10				
* G=Grab; C=Composite		**Matrix: - Al=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater						



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## Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
		AMRF	12/7/21
1. Were airbills / tracking numbers present and recorded?.....		NONE	<input checked="" type="radio"/> YES <input type="radio"/> NO
Tracking number: <u>8155 4427 3958</u>			
2. Are Custody Seals on shipping containers intact?.....		NONE	<input checked="" type="radio"/> YES <input type="radio"/> NO
3. Are Custody Seals on sample containers intact?.....		<input checked="" type="radio"/> NONE	<input type="radio"/> YES <input type="radio"/> NO
4. Is there a COC (Chain-of-Custody) present?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5. Are the COC and bottle labels complete, legible and in agreement?.....			<input type="radio"/> YES <input checked="" type="radio"/> NO
5a. Does the COC contain sample locations?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5b. Does the COC contain date and time of sample collection for all samples?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5c. Does the COC contain sample collectors name?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5d. Does the COC note the type(s) of preservation for all bottles?.....		- = UNP	<input type="radio"/> YES <input checked="" type="radio"/> NO
5e. Does the COC note the number of bottles submitted for each sample?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5f. Does the COC note the type of sample, composite or grab?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
5g. Does the COC note the matrix of the sample(s)?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
6. Are all aqueous samples requiring preservation preserved correctly? <sup>1</sup> .....		<input checked="" type="radio"/> N/A	<input type="radio"/> YES <input type="radio"/> NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
8. Are all samples within holding times for the requested analyses?.....			<input checked="" type="radio"/> YES <input type="radio"/> NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.).....			<input checked="" type="radio"/> YES <input type="radio"/> NO
10. Did we receive trip blanks ( applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?.....		<input checked="" type="radio"/> N/A	<input type="radio"/> YES <input type="radio"/> NO
11. Were the samples received on ice?.....			<input type="radio"/> YES <input checked="" type="radio"/> NO
12. Were sample temperatures measured at 0.0-6.0°C.....			<input type="radio"/> YES <input checked="" type="radio"/> NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below.....			<input type="radio"/> YES <input checked="" type="radio"/> NO
13a. Are the samples required for SDWA compliance reporting?.....		N/A	<input type="radio"/> YES <input type="radio"/> NO
13b. Did the client provide a SDWA PWS ID#?.....		N/A	<input type="radio"/> YES <input type="radio"/> NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?.....		N/A	<input type="radio"/> YES <input type="radio"/> NO
13d. Did the client provide the SDWA sample location ID/Description?.....		N/A	<input type="radio"/> YES <input type="radio"/> NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?.....		N/A	<input type="radio"/> YES <input type="radio"/> NO

Cooler #: \_\_\_\_\_

Temperature (°C): 13°

Thermometer ID: 570

Radiological (µCi): \_\_\_\_\_

COMMENTS (Required for all NO responses above and any sample non-conformance):

<sup>1</sup>Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



## SDG 3217072 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
MW-2-07	11/17/2021	6020A	Primary
MW-2-09	11/17/2021	8270D 6020A	Primary
MW-2-22	11/18/2021	6020A	Primary
MW-104	11/18/2021	6020A	Duplicate
IDW Water	11/18/2021	7470A 8081B 8270E 6010C 8260C	Primary

#### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3217072 listed the sample dates as 11/17/2021 and 11/18/2021. According to the COCs, the temperature of the cooler at receipt was 19°C. At receipt not all samples were accounted for. Qualification on sample results is warranted based on holding time and preservation requirements; therefore, all affected samples are qualified R;P or NJ;P as well as R;HT or NJ;HT.

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were provided for the SDG.

#### II. Initial Calibration

The initial calibration standards were not provided for the SDG.

#### III. Continuing Calibration

The continuing calibration standards were not provided for the SDG.

#### IV. Blanks



Nine method blanks were analyzed for the samples in SDG 3217072. The method blanks did not have detections for any analytes except for lead; therefore, the affected samples are qualified U;MB or J;MB.

#### **V. Surrogate Percent Recovery Compounds**

All reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3217072 met QC criteria except for phenol-d5; therefore, all affected samples are qualified J;SUR.

#### **VI. Matrix Spikes/ Matrix Spike Duplicates**

The MS/MSD was analyzed for pesticides to identify the interaction of the sample matrix using EPA 8081B. The MS/MSD was completed using matrix that is site derived, but not within the same SDG; therefore, no qualification of the data is necessary. Relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

The MS/MSD utilized EPA 8270E, 7470E, and 6010C to identify the interaction of the sample matrix with various SVOCs. The MS/MSD analysis was completed using a matrix that is not site derived and therefore cannot evaluate the precision. The affected samples are qualified J;MS and J;MSD (U;MS and U;MSD if result is ND). Relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

The MS/MSD utilized EPA 6020A to identify the interaction of the sample matrix with various metals. The percent recoveries were within QC limits; therefore, no qualification of the data is necessary. Relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

#### **VII. Laboratory Control Sample**

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3217072 using EPA 8081B, 8270E, 6020A, 7470A, 6010C, and 8260C. All percent recoveries were within acceptable QC limits; therefore, no qualification of the data is necessary.

#### **VIII. Regional Quality Assurance and Quality Control**

Samples MW-104 (primary samples MW-2-22) were designated as field duplicates. The quality assurance and quality control criteria could not be fully assessed. The duplicate concentrations for total arsenic and total lead are ND. The relative percent difference for total barium is approximately 158%. The total barium results are qualified J;FD for the primary sample and field duplicate.

**IX. Comparability**

Prescribed field sampling of SDG 3217072 was completed according to the sampling design.

Laboratory analysis of SDG 3217072 is a portion of the intended SDG according to the COC. The larger group was analyzed as three separate groups based on changing holding times, analyses, and insufficient sample volumes. The overall analytical completeness score for the larger group from the COC is approximately 52.6%. SDG 3217072 analyzed 7/57 prescribed from the larger COC, roughly 12.3%.

**X. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XI. Internal Standards**

Internal standard area counts for the samples were not within the upper and lower quality control limits. An assessment of the data is necessary based on acceptable internal standard area counts.

**XII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. Discrepancies were identified in section 1.

**XIII. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

**XIV. System Performance**

A review of instrument quality control performance was not completed for SDG 3217072.

**XV. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

SDG 3217072 analyzed 7/57 prescribed from the larger COC, roughly 12.3%. At receipt not all samples were accounted for. Multiple results are rejected based on hold

## Sample Delivery Group 3217072 – Data Review

times or preservation. “NJ” flagged data should be considered qualitative. Multiple J flags were also assigned; if associated with NJ;HT flag, data should be considered qualitative.



**ALS Environmental**



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January 6, 2022

Ms. Rhonda Kay  
VHB - Vermont  
100 State Street  
Suite 600  
Montpelier, VT 05602

## Certificate of Analysis

Project Name: **2021-Caneel Bay Resort, Virgin Islands**

Workorder: **3217072**

Purchase Order:

Workorder ID: **Caneel Bay USVI**

Dear Ms. Kay:

Enclosed are the analytical results for samples received by the laboratory on Friday, December 10, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ben Deede

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Sarah S Leung  
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3217072 Caneel Bay USVI

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3217072001	MW-2-07	Ground Water	11/17/2021 10:30	12/10/2021 14:04	Collected by Client
3217072002	MW-2-09	Ground Water	11/17/2021 11:45	12/10/2021 14:04	Collected by Client
3217072005	MW-2-22	Ground Water	11/18/2021 11:45	12/10/2021 14:04	Collected by Client
3217072006	MW-104	Ground Water	11/18/2021 12:00	12/10/2021 14:04	Collected by Client
3217072007	IDW-Water	Water	11/18/2021 15:30	12/10/2021 14:04	Collected by Client

---

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## SAMPLE SUMMARY

Workorder: 3217072 Caneel Bay USVI

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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## PROJECT SUMMARY

Workorder: 3217072 Caneel Bay USVI

### Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

### Sample Comments

Lab ID: 3217072002

Sample ID: MW-2-09

Sample Type: SAMPLE

The sample was received at a temperature greater than 6 degrees C.

The sample was received without the presence of ice.

The sample was received past the extraction holding time for EPA method 8270.

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**ALS Environmental**301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - [www.alsglobal.com](http://www.alsglobal.com)NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343**ANALYTICAL RESULTS**

Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072001**

Date Collected: 11/17/2021 10:30

Matrix: Ground Water

Sample ID: **MW-2-07**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
------------	---------	------	-------	-----	-----	--------	-------------	----------	----	------

**METALS**

Lead, Total	ND	<b>R;P</b>	mg/L	0.0022	0.00074	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:47	RMD	A1
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Ms. Sarah S Leung

Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072002**

Date Collected: 11/17/2021 11:45

Matrix: Ground Water

Sample ID: **MW-2-09**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND	R;HT R;P	ug/L	1.5	0.15	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Acenaphthylene	ND	R;HT R;P	ug/L	1.5	0.18	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Anthracene	ND	R;HT R;P	ug/L	1.5	0.15	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Benzo(a)anthracene	ND	R;HT R;P	ug/L	1.5	0.17	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Benzo(a)pyrene	ND	R;HT C	ug/L	1.5	0.21	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Benzo(b)fluoranthene	ND	C	ug/L	1.5	0.13	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Benzo(g,h,i)perylene	ND	C	ug/L	1.5	0.21	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Benzo(k)fluoranthene	ND	C	ug/L	1.5	0.18	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Chrysene	ND	R;HT R;P	ug/L	1.5	0.15	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Dibenzo(a,h)anthracene	ND	R;HT R;P	ug/L	1.5	0.20	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Fluoranthene	ND	R;HT R;P	ug/L	1.5	0.17	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Fluorene	ND	R;HT R;P	ug/L	1.5	0.19	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Indeno(1,2,3-cd)pyrene	ND	R;HT R;P	ug/L	1.5	0.12	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Naphthalene	ND	R;HT R;P	ug/L	1.5	0.17	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Phenanthrene	ND	R;HT R;P	ug/L	1.5	0.13	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Pyrene	ND	R;HT R;P	ug/L	1.5	0.16	SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Fluorobiphenyl (S)	87.9	NJ;HT NJ;P	%	24 - 116		SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Nitrobenzene-d5 (S)	91.1	NJ;HT NJ;P	%	32 - 125		SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
Terphenyl-d14 (S)	111	NJ;HT NJ;P	%	41 - 145		SW846 8270D	12/14/21 12:50 MXL	12/16/21 13:34	GEC	B
<b>METALS</b>										
Lead, Total	ND	NJ;P	mg/L	0.0022	0.00074	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:49	RMD	A1

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Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072005**

Date Collected: 11/18/2021 11:45

Matrix: Ground Water

Sample ID: **MW-2-22**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>METALS</b>										
Arsenic, Total	ND	R;P	mg/L	0.0033	0.0011	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:51	RMD	A1
Barium, Total	0.33	J;FD NJ;P	mg/L	0.0056	0.0019	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:51	RMD	A1
Lead, Total	ND	R;P	mg/L	0.0022	0.00074	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:51	RMD	A1

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## ANALYTICAL RESULTS

Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072006**

Date Collected: 11/18/2021 12:00

Matrix: Ground Water

Sample ID: **MW-104**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>METALS</b>										
Arsenic, Total	ND	R;P	mg/L	0.0033	0.0011	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:57	RMD	A1
Barium, Total	0.33	J;FD NJ;P	mg/L	0.0056	0.0019	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:57	RMD	A1
Lead, Total	ND	R;P	mg/L	0.0022	0.00074	SW846 6020A	12/15/21 19:21 SXC	12/21/21 13:57	RMD	A1

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## ANALYTICAL RESULTS

Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072007**

Date Collected: 11/18/2021 15:30

Matrix: Water

Sample ID: **IDW-Water**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>TCLP EPA 1311 VOLATILE ORGANIC</b>										
Benzene	ND	R;HT R;P	ug/L	20.0	8.0	SW846 8260C		12/16/21 17:37	DPC	B
2-Butanone	ND	R;HT R;P	ug/L	200	60.0	SW846 8260C		12/16/21 17:37	DPC	B
Carbon Tetrachloride	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
Chlorobenzene	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
Chloroform	4.5J	NJ;HT NJ;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
1,2-Dichloroethane	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
1,1-Dichloroethene	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
Tetrachloroethene	ND	R;HT R;P	ug/L	20.0	8.0	SW846 8260C		12/16/21 17:37	DPC	B
Trichloroethene	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
Vinyl Chloride	ND	R;HT R;P	ug/L	20.0	4.0	SW846 8260C		12/16/21 17:37	DPC	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94	NJ;HT NJ;P	%	62 - 133		SW846 8260C		12/16/21 17:37	DPC	B
4-Bromofluorobenzene (S)	92.9	NJ;HT NJ;P	%	79 - 114		SW846 8260C		12/16/21 17:37	DPC	B
Dibromofluoromethane (S)	83.5	NJ;HT NJ;P	%	78 - 116		SW846 8260C		12/16/21 17:37	DPC	B
Toluene-d8 (S)	93.3	NJ;HT NJ;P	%	76 - 127		SW846 8260C		12/16/21 17:37	DPC	B
<b>TCLP EPA 1311 SEMI-VOLATILES</b>										
mp-Cresol	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
o-Cresol	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
1,4-Dichlorobenzene	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
2,4-Dinitrotoluene	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Hexachlorobenzene	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Hexachlorobutadiene	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Hexachloroethane	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Nitrobenzene	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Pentachlorophenol	ND	R;HT R;P	ug/L	120		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Pyridine	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
2,4,5-Trichlorophenol	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
2,4,6-Trichlorophenol	ND	R;HT R;P	ug/L	60.0		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	78.7	NJ;HT NJ;P	%	23 - 131		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
2-Fluorobiphenyl (S)	67.7	NJ;HT NJ;P	%	24 - 116		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
2-Fluorophenol (S)	71.8	NJ;HT NJ;P	%	10 - 85		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Nitrobenzene-d5 (S)	71.3	NJ;HT NJ;P	%	32 - 125		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Phenol-d5 (S)	J;MS MSD 68.2	NJ;HT NJ;P	%	J;SUR 7 - 56		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B
Terphenyl-d14 (S)	72.5	NJ;HT NJ;P	%	41 - 145		SW846 8270E	12/15/21 13:50 AJW	12/16/21 18:21	GEC	B

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## ANALYTICAL RESULTS

Workorder: 3217072 Caneel Bay USVI

Lab ID: **3217072007**

Date Collected: 11/18/2021 15:30

Matrix: Water

Sample ID: **IDW-Water**

Date Received: 12/10/2021 14:04

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>TCLP EPA 1311 PESTICIDES</b>										
gamma-BHC	ND	R;HT R;P	ug/L	0.40	0.096	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Chlordane	ND	R;HT R;P	ug/L	10.0	1.6	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Endrin	ND	R;HT R;P	ug/L	0.40	0.12	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Heptachlor	ND	R;HT R;P	ug/L	0.40	0.12	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Heptachlor Epoxide	ND	R;HT R;P	ug/L	0.40	0.080	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Methoxychlor	ND	R;HT R;P	ug/L	0.40	0.27	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Toxaphene	ND	R;HT R;P	ug/L	20.0	3.8	SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By Cntr</i>
Decachlorobiphenyl (S)	86.3	NJ;HT NJ;P	%	30 - 140		SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Decachlorobiphenyl. (S)	94.7	NJ;HT NJ;P	%	30 - 140		SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Tetrachloro-m-xylene (S)	71.8	NJ;HT NJ;P	%	30 - 123		SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
Tetrachloro-m-xylene. (S)	85	NJ;HT NJ;P	%	30 - 123		SW846 8081B	12/15/21 18:00 J1H	12/16/21 13:10	KJH	A
<b>TCLP EPA 1311 METALS</b>										
Arsenic, Total	ND	R;P	mg/L	0.13	0.041	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Barium, Total	ND	R;P	mg/L	2.5	0.84	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Cadmium, Total	ND	R;P	mg/L	0.0099	0.0033	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Chromium, Total	ND	R;P	mg/L	0.025	0.0090	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Lead, Total	0.034	NJ;HT NJ;P	mg/L	0.030	0.0099	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Mercury, Total	ND	R;P	mg/L	0.0020	0.00066	SW846 7470A	12/16/21 14:30 A1S	12/16/21 17:43	A1S	B
Selenium, Total	ND	R;P	mg/L	0.099	0.033	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1
Silver, Total	ND	R;P	mg/L	0.020	0.0063	SW846 6010C	12/15/21 16:49 SXC	12/16/21 12:07	SRT	B1

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## **ANALYTICAL RESULTS**

Workorder: 3217072 Caneel Bay USVI

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### **PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>3217072007</b>	1	IDW-Water	SW846 8270E	Phenol-d5

The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 68.2 and the control limits were 7 to 56. This result was reported at a dilution of 1.

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**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3217072 Caneel Bay USVI

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3217072001	MW-2-07	SW846 6020A	SW846 3015	
3217072002	MW-2-09	SW846 6020A	SW846 3015	
3217072002	MW-2-09	SW846 8270D	SW846 3510C	
3217072005	MW-2-22	SW846 6020A	SW846 3015	
3217072006	MW-104	SW846 6020A	SW846 3015	
3217072007	IDW-Water	SW846 6010C	SW846 3015	
3217072007	IDW-Water	SW846 7470A	SW846 7470A	
3217072007	IDW-Water	SW846 8081B	SW846 3511	SW846 3511
3217072007	IDW-Water	SW846 8260C		SW846 3511
3217072007	IDW-Water	SW846 8270E	SW846 3510C	SW846 3511

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

QC Batch: EXTR/67545

Analysis Method: SW846 8270D

QC Batch Method: SW846 3510C

Associated Lab Samples: 3217072002

### METHOD BLANK: 3434951

Parameter	Blank Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	1.5
Acenaphthylene	ND	ug/L	1.5
Anthracene	ND	ug/L	1.5
Benzo(a)anthracene	ND	ug/L	1.5
Benzo(a)pyrene	ND	ug/L	1.5
Benzo(b)fluoranthene	ND	ug/L	1.5
Benzo(g,h,i)perylene	ND	ug/L	1.5
Benzo(k)fluoranthene	ND	ug/L	1.5
Chrysene	ND	ug/L	1.5
Dibenzo(a,h)anthracene	ND	ug/L	1.5
Fluoranthene	ND	ug/L	1.5
Fluorene	ND	ug/L	1.5
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.5
Naphthalene	ND	ug/L	1.5
Phenanthrene	ND	ug/L	1.5
Pyrene	ND	ug/L	1.5
2,4,6-Tribromophenol (S)			
2-Fluorobiphenyl (S)	77.6	%	24 - 116
2-Fluorophenol (S)			
Nitrobenzene-d5 (S)	88.4	%	32 - 125
Phenol-d5 (S)			
Terphenyl-d14 (S)	109	%	41 - 145

### LABORATORY CONTROL SAMPLE: 3434952

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Acenaphthene	82.6	ug/L	50	41.3	36 - 130
Acenaphthylene	88	ug/L	50	44.0	39 - 130
Anthracene	89.6	ug/L	50	44.8	48 - 133
Benzo(a)anthracene	101	ug/L	50	50.7	51 - 127
Benzo(a)pyrene	91.6	ug/L	50	45.8	53 - 127
Benzo(b)fluoranthene	97.3	ug/L	50	48.6	53 - 131
Benzo(g,h,i)perylene	96.6	ug/L	50	48.3	54 - 131
Benzo(k)fluoranthene	102	ug/L	50	50.9	52 - 130
Chrysene	102	ug/L	50	50.8	50 - 131

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**QUALITY CONTROL DATA**

Workorder: 3217072 Caneel Bay USVI

Dibenzo(a,h)anthracene	99.5	ug/L	50	49.7	56 - 130
Fluoranthene	99.3	ug/L	50	49.6	49 - 132
Fluorene	83.1	ug/L	50	41.5	42 - 131
Indeno(1,2,3-cd)pyrene	97.2	ug/L	50	48.6	55 - 126
Naphthalene	76.7	ug/L	50	38.4	21 - 123
Phenanthrene	91.4	ug/L	50	45.7	46 - 131
Pyrene	105	ug/L	50	52.3	48 - 134
2,4,6-Tribromophenol (S)					
2-Fluorobiphenyl (S)	84.2	%			24 - 116
2-Fluorophenol (S)					
Nitrobenzene-d5 (S)	93.9	%			32 - 125
Phenol-d5 (S)					
Terphenyl-d14 (S)	110	%			41 - 145

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

QC Batch: EXTR/67553

Analysis Method: SW846 8081B

QC Batch Method: SW846 3511

Associated Lab Samples: 3217072007

### METHOD BLANK: 3435340

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.020
Chlordane	ND	ug/L	0.50
Endrin	ND	ug/L	0.020
Heptachlor	ND	ug/L	0.020
Heptachlor Epoxide	ND	ug/L	0.020
Methoxychlor	ND	ug/L	0.020
Toxaphene	ND	ug/L	1.0
Decachlorobiphenyl (S)	71.3	%	30 - 140
Decachlorobiphenyl. (S)	75.9	%	30 - 140
Tetrachloro-m-xylene (S)	82	%	30 - 123
Tetrachloro-m-xylene. (S)	93.3	%	30 - 123

### LABORATORY CONTROL SAMPLE: 3435341

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
gamma-BHC	99	ug/L	.5	0.50	58 - 138
Chlordane		ug/L		ND	
Endrin	98.8	ug/L	.5	0.49	58 - 143
Heptachlor	88.7	ug/L	.5	0.44	41 - 124
Heptachlor Epoxide	90.6	ug/L	.5	0.45	62 - 131
Methoxychlor	80.4	ug/L	.5	0.40	56 - 140
Toxaphene		ug/L		ND	
Decachlorobiphenyl (S)	68.1	%			30 - 140
Decachlorobiphenyl. (S)	76.6	%			30 - 140
Tetrachloro-m-xylene (S)	81.8	%			30 - 123
Tetrachloro-m-xylene. (S)	95.3	%			30 - 123

### MATRIX SPIKE: 3435342 DUPLICATE: 3435343 ORIGINAL: 3216264005

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
gamma-BHC	0	ug/L	10	8.986	9.0418	89.9	90.4	58 - 138	.62	30

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### QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

Endrin	0	ug/L	10	8.703	9.164	87	91.6	58 - 143	5.16	28
Heptachlor	0	ug/L	10	7.2096	7.9419	72.1	79.4	41 - 124	9.67	28
Heptachlor Epoxide	0	ug/L	10	8.218	8.308	82.2	83.1	62 - 131	1.09	27
Methoxychlor	0	ug/L	10	6.717	7.6299	67.2	76.3	56 - 140	12.7	21
Decachlorobiphenyl (S)	80.6	%				80.6	79.8	30 - 140		
Decachlorobiphenyl. (S)	92	%				92	85.7	30 - 140		
Tetrachloro-m-xylene (S)	66.6	%				66.6	78.7	30 - 123		
Tetrachloro-m-xylene. (S)	78.4	%				78.4	93	30 - 123		

#### METHOD BLANK: 3435339

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.40
Chlordane	ND	ug/L	10.0
Endrin	ND	ug/L	0.40
Heptachlor	ND	ug/L	0.40
Heptachlor Epoxide	ND	ug/L	0.40
Methoxychlor	ND	ug/L	0.40
Toxaphene	ND	ug/L	20.0
Decachlorobiphenyl (S)	95.5	%	30 - 140
Decachlorobiphenyl. (S)	109	%	30 - 140
Tetrachloro-m-xylene (S)	93	%	30 - 123
Tetrachloro-m-xylene. (S)	121	%	30 - 123

#### METHOD BLANK: 3435937

Parameter	Blank Result	Units	Reporting Limit
gamma-BHC	ND	ug/L	0.40
Chlordane	ND	ug/L	10.0
Endrin	ND	ug/L	0.40
Heptachlor	ND	ug/L	0.40
Heptachlor Epoxide	ND	ug/L	0.40
Methoxychlor	ND	ug/L	0.40
Toxaphene	ND	ug/L	20.0
Decachlorobiphenyl (S)	107	%	30 - 140
Decachlorobiphenyl. (S)	111	%	30 - 140
Tetrachloro-m-xylene (S)	76.9	%	30 - 123
Tetrachloro-m-xylene. (S)	109	%	30 - 123

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### QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

**QC Batch:** EXTR/67562      **Analysis Method:** SW846 8270E  
**QC Batch Method:** SW846 3510C  
**Associated Lab Samples:** 3217072007

#### METHOD BLANK: 3435758

Parameter	Blank Result	Units	Reporting Limit
mp-Cresol	ND	ug/L	12.0
o-Cresol	ND	ug/L	12.0
1,4-Dichlorobenzene	ND	ug/L	12.0
2,4-Dinitrotoluene	ND	ug/L	12.0
Hexachlorobenzene	ND	ug/L	12.0
Hexachlorobutadiene	ND	ug/L	12.0
Hexachloroethane	ND	ug/L	12.0
Nitrobenzene	ND	ug/L	12.0
Pentachlorophenol	ND	ug/L	24.0
Pyridine	ND	ug/L	12.0
2,4,5-Trichlorophenol	ND	ug/L	12.0
2,4,6-Trichlorophenol	ND	ug/L	12.0
2,4,6-Tribromophenol (S)	72.1	%	23 - 131
2-Fluorobiphenyl (S)	53.7	%	24 - 116
2-Fluorophenol (S)	44.6	%	10 - 85
Nitrobenzene-d5 (S)	68.4	%	32 - 125
Phenol-d5 (S)	33.2	%	7 - 56
Terphenyl-d14 (S)	87.8	%	41 - 145

#### LABORATORY CONTROL SAMPLE: 3435759

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
mp-Cresol	50.6	ug/L	100	50.6	28 - 128
o-Cresol	51	ug/L	100	51.0	34 - 136
1,4-Dichlorobenzene	41.2	ug/L	50	20.6	5 - 116
2,4-Dinitrotoluene	87.7	ug/L	50	43.8	49 - 138
Hexachlorobenzene	76.9	ug/L	50	38.4	59 - 109
Hexachlorobutadiene	38	ug/L	50	19.0	5 - 126
Hexachloroethane	36	ug/L	50	18.0	5 - 111
Nitrobenzene	69.2	ug/L	50	34.6	41 - 128
Pentachlorophenol	97.2	ug/L	100	97.2	41 - 149
Pyridine	35	ug/L	50	17.5	5 - 115
2,4,5-Trichlorophenol	65.8	ug/L	100	65.8	44 - 148
2,4,6-Trichlorophenol	66	ug/L	100	66.0	41 - 148
2,4,6-Tribromophenol (S)	79.9	%			23 - 131

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

2-Fluorobiphenyl (S)	56.6	%	24 - 116
2-Fluorophenol (S)	38.8	%	10 - 85
Nitrobenzene-d5 (S)	61.4	%	32 - 125
Phenol-d5 (S)	30.2	%	7 - 56
Terphenyl-d14 (S)	77.8	%	41 - 145

MATRIX SPIKE: 3435790 DUPLICATE: 3435791 ORIGINAL: 3217215008

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
mp-Cresol	0	ug/L	500	390.217	393.778	78	78.8	28 - 128	.91	20
o-Cresol	0	ug/L	500	378.879	382.234	75.8	76.4	34 - 136	.88	23
1,4-Dichlorobenzene	0	ug/L	250	144.487	144.789	57.8	57.9	5 - 116	.21	30
2,4-Dinitrotoluene	0	ug/L	250	223.52	219.326	89.4	87.7	49 - 138	1.89	22
Hexachlorobenzene	0	ug/L	250	203.723	199.067	81.5	79.6	59 - 109	2.31	21
Hexachlorobutadiene	0	ug/L	250	156.949	161.41	62.8	64.6	5 - 126	2.8	30
Hexachloroethane	0	ug/L	250	135.207	138.302	54.1	55.3	5 - 111	2.26	30
Nitrobenzene	0	ug/L	250	209.446	207.696	83.8	83.1	41 - 128	.84	19
Pentachlorophenol	0	ug/L	500	578.863	583.488	116	117	41 - 149	.8	28
Pyridine	0	ug/L	250	161.351	141.401	64.5	56.6	5 - 115	13.2	30
2,4,5-Trichlorophenol	0	ug/L	500	403.284	397.584	80.7	79.5	44 - 148	1.42	23
2,4,6-Trichlorophenol	0	ug/L	500	422.13	416.225	84.4	83.2	41 - 148	1.41	23
2,4,6-Tribromophenol (S)	92.4	%				92.4	90.5	23 - 131		
2-Fluorobiphenyl (S)	70.5	%				70.5	71.9	24 - 116		
2-Fluorophenol (S)	71.9	%				71.9	71.3	10 - 85		
Nitrobenzene-d5 (S)	72.4	%				72.4	71.6	32 - 125		
Phenol-d5 (S)	67	%				67*	67.7*	7 - 56		
Terphenyl-d14 (S)	86	%				86	83.4	41 - 145		

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

QC Batch: MDIG/92955

Analysis Method: SW846 7470A

QC Batch Method: SW846 7470A

Associated Lab Samples: 3217072007

### METHOD BLANK: 3434605

Parameter	Blank Result	Units	Reporting Limit
Mercury, Total	ND	mg/L	0.0020

### LABORATORY CONTROL SAMPLE: 3434606

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Mercury, Total	94.5	mg/L	.002	0.0019J	85 - 115

### MATRIX SPIKE: 3434609 DUPLICATE: 3434610 ORIGINAL: 3215819001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury, Total	.00001	mg/L	.005	.00517	.00504	103	101	70 - 130	2.55	20

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

**QC Batch:** MDIG/92990 **Analysis Method:** SW846 6010C  
**QC Batch Method:** SW846 3015  
**Associated Lab Samples:** 3217072007

### METHOD BLANK: 3435851

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/L	0.13
Barium, Total	ND	mg/L	2.5
Cadmium, Total	ND	mg/L	0.0099
Chromium, Total	ND	mg/L	0.025
Lead, Total	0.013J	mg/L	0.030
Selenium, Total	ND	mg/L	0.099
Silver, Total	ND	mg/L	0.020

### LABORATORY CONTROL SAMPLE: 3435852

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	96.6	mg/L	.5	0.48	80 - 120
Barium, Total	95.6	mg/L	5	4.8	80 - 120
Cadmium, Total	97.8	mg/L	.5	0.49	80 - 120
Chromium, Total	94.6	mg/L	.5	0.47	80 - 120
Lead, Total	97.6	mg/L	.5	0.49	80 - 120
Selenium, Total	97.7	mg/L	5	4.9	80 - 120
Silver, Total	103	mg/L	.5	0.52	80 - 120

### MATRIX SPIKE: 3435853 DUPLICATE: 3435854 ORIGINAL: 3217130001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic, Total	0	mg/L	.5	.50299	.52749	101	105	50 - 150	4.75	20
Barium, Total	.125	mg/L	5	4.90195	5.13495	95.5	100	50 - 150	4.64	20
Cadmium, Total	0	mg/L	.5	.491	.51549	98.2	103	50 - 150	4.87	20
Chromium, Total	0	mg/L	.5	.4785	.50549	95.7	101	50 - 150	5.49	20
Lead, Total	.022	mg/L	.5	.51399	.53749	98.4	103	50 - 150	4.47	20
Selenium, Total	.02	mg/L	5	4.99195	5.17995	99.4	103	50 - 150	3.7	20
Silver, Total	0	mg/L	.5	.51699	.53899	103	108	50 - 150	4.17	20

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

**QC Batch:** MDIG/92996 **Analysis Method:** SW846 6020A  
**QC Batch Method:** SW846 3015  
**Associated Lab Samples:** 3217072001, 3217072002, 3217072005, 3217072006

### METHOD BLANK: 3436009

Parameter	Blank Result	Units	Reporting Limit
Arsenic, Total	ND	mg/L	0.0033
Barium, Total	ND	mg/L	0.0056
Lead, Total	ND	mg/L	0.0022

### LABORATORY CONTROL SAMPLE: 3436010

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Arsenic, Total	109	mg/L	.22	0.24	80 - 120
Barium, Total	109	mg/L	2.2	2.4	80 - 120
Lead, Total	111	mg/L	.22	0.25	80 - 120

### MATRIX SPIKE: 3436011 DUPLICATE: 3436012 ORIGINAL: 3217072005

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic, Total	.00035	mg/L	.22	.22938	.23417	103	105	75 - 125	2.07	20
Barium, Total	.33461	mg/L	2.2	2.73292	2.75014	108	109	75 - 125	.63	20
Lead, Total	.00011	mg/L	.22	.24131	.2493	109	112	75 - 125	3.26	20

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## QUALITY CONTROL DATA

Workorder: 3217072 Caneel Bay USVI

**QC Batch:** VOMS/62146 **Analysis Method:** SW846 8260C  
**QC Batch Method:** SW846 8260C  
**Associated Lab Samples:** 3217072007

### METHOD BLANK: 3436309

Parameter	Blank Result	Units	Reporting Limit
Benzene	ND	ug/L	1.0
2-Butanone	ND	ug/L	10.0
Carbon Tetrachloride	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
Vinyl Chloride	ND	ug/L	1.0
1,2-Dichloroethane-d4 (S)	95.2	%	62 - 133
4-Bromofluorobenzene (S)	94.2	%	79 - 114
Dibromofluoromethane (S)	83.4	%	78 - 116
Toluene-d8 (S)	94	%	76 - 127

### LABORATORY CONTROL SAMPLE: 3436310

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Benzene	102	ug/L	20	20.4	80 - 124
2-Butanone	90.5	ug/L	100	90.5	50 - 152
Carbon Tetrachloride	97.1	ug/L	20	19.4	62 - 132
Chlorobenzene	92.4	ug/L	20	18.5	85 - 117
Chloroform	93.3	ug/L	20	18.7	78 - 122
1,2-Dichloroethane	97.3	ug/L	20	19.5	70 - 133
1,1-Dichloroethene	110	ug/L	20	21.9	63 - 128
Tetrachloroethene	89.2	ug/L	20	17.8	72 - 124
Trichloroethene	89.3	ug/L	20	17.9	77 - 124
Vinyl Chloride	118	ug/L	20	23.6	27 - 138
1,2-Dichloroethane-d4 (S)	93.4	%			62 - 133
4-Bromofluorobenzene (S)	91.6	%			79 - 114
Dibromofluoromethane (S)	86.7	%			78 - 116
Toluene-d8 (S)	89.5	%			76 - 127

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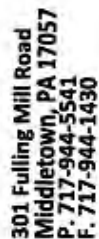


**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: 3217072 Caneel Bay USVI

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3217072007	IDW-Water	SW846 7470A	MDIG/92955	SW846 7470A	META/84715
3217072002	MW-2-09	SW846 3510C	EXTR/67545	SW846 8270D	SVMS/40636
3217072007	IDW-Water	SW846 3511	EXTR/67553	SW846 8081B	SVGC/62775
3217072007	IDW-Water	SW846 3510C	EXTR/67562	SW846 8270E	SVMS/40639
3217072007	IDW-Water	SW846 3015	MDIG/92990	SW846 6010C	META/84684
3217072001	MW-2-07	SW846 3015	MDIG/92996	SW846 6020A	META/84748
3217072002	MW-2-09	SW846 3015	MDIG/92996	SW846 6020A	META/84748
3217072005	MW-2-22	SW846 3015	MDIG/92996	SW846 6020A	META/84748
3217072006	MW-104	SW846 3015	MDIG/92996	SW846 6020A	META/84748
3217072007	IDW-Water			SW846 8260C	VOMS/62146

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## COC #:

**301 Fulling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430**



3217072

SAMPLER INSTRUCTIONS ON THE BACK									
Client Name:	VHB	Container Type	CG	P	AG	AG	P	(completed by Receiving Lab)	
Address:	100 State Street, Suite 600, Montpelier, VT 05602	Container Size	40 ml	125 ml	1 L	1 L	125 ml	W.O. Temp: 19	Therm ID: 553
Contact:	Ben Deede	Preservative	MeOH	HNO3	-	-	HNO3	Courier/Tracking #:	
Phone#:	401-447-8254	ANALYSES/METHOD REQUESTED							
Project Name#:	Caneel Bay USVI	Purchase Order #: 211101051							
Bill To:	VHB, Montpelier, VT	Project Comments:							
<input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		See pg 2 for rec. info. W1234							
Date Required: <input checked="" type="checkbox"/> X-Y bdeede@vhb.com, rkay@vhb.com Approved? <input type="checkbox"/> Y No:		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:							
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	Matrix	VOCs	Lead	PAH	PAH, Pesticides	Lead, Barium, Arsenic	Enter Number of Containers Per Sample or Field Results Below.
1 MW-2-07	11/17/21	10:30	GW	3	1	2			
2 MW-2-09	11/17/21	11:45	GW	3	1	2			
3 Dug Well 1	11/17/21	13:40	GW	3	1	2	2	1	
4 Dug Well 2	11/17/21	14:30	GW	3	1	2	1	1	
5 MW-2-06	11/18/21	07:40	GW	3	1	2			
6 MW-2-21	11/18/21	11:30	GW	3			3	1	
7 MW-2-22 + MS/MSD	11/18/21	11:45	GW	9	2	1	2	3	
8 MW-104	11/18/21	12:00	GW	3	1		4	1	
9 EB-WATER-2021118	11/18/21	13:30	GW	3			4	1	
10 Trip Blank	11/18/21	NA	GW	3					
SAMPLED BY (Please Print): Ben Deede (BND), Ben Elias (BEB) 11 MW-2-2-88									
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Data			
1 Ben Deede VHB	11/18/21	10:00	2 Ben Deede	11-18-21	19:04	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> CLP-like	<input type="checkbox"/> USACE/DOD	<input type="checkbox"/> USACE
3			4			<input type="checkbox"/> Reportable to PADEP?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special
5			6			<input type="checkbox"/> PWSID #			
7			8			<input type="checkbox"/> EDOS: Format Type			
9			10						

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Rev 11/18





301 Filling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 72 **2** of **2**  
ALS Quote #:

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp:	
Contact: Ben Deede		Preservative	-	-	-	-	Therm ID:	
Phone#: 401-447-9254		ANALYSES/METHOD REQUESTED						
Project Name#: Caneel Bay USVI		Purchase Order #: 211101051						
Bill To: VHB, Montpelier, VT		Project Comments:						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.								
Date Required: Email? <input checked="" type="checkbox"/> Y bdeede@vhb.com, rkay@vhb.com Fax? <input type="checkbox"/> Y No.:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.			Temp Taken By: WO Temp (°C) Therm ID: <u>573.19</u> Receipt Info Completed By: <u>NL</u> Cooler Custody Seal Intact <u>Y</u> Sample Custody Seal Intact <u>Y</u> Received on Ice <u>Y</u> Cooler & Samples Intact <u>Y</u> Correct Containers Provided <u>Y</u> Sample Label/COQ Agree <u>Y</u> Adequate Sample Volumes <u>Y</u> VOA Headspace Present <u>Y</u> Voa Trip Blank <u>Y</u> NLS 4 Days? <u>Y</u> Rad Screen (uCi) <u>633108</u> Courier/Tracking #: <u>633108</u> SDWA Compliance <u>Y</u> PWSID <u>167</u>	
11	IDW-Water	11/18/21	15:30	C	W	1	ISM Arsenic	
12	IDW-Soil	11/18/21	15:30	C	W	1	TCLP VOC	
13	IA-Ref-05 A	11/19/21	01:50	C	S	1	TCLP VOC, SVOC, Pest, Metals	
14	IA-Ref-05 B	11/19/21	10:00	C	S	1		
15	IA-Ref-05 C	11/19/21	16:10	C	S	1		
16								
17								
18								
19								
20								
SAMPLER COMMENTS: <u># bottles corrected, 4 of temp hold, Analyze w/qualifiers per client. 11/18/21</u>				Special Processing USACE <input type="checkbox"/> Navy <input type="checkbox"/> USACE/DOD <input type="checkbox"/> Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> PWSID # <input type="checkbox"/> EDDS: Formal Type <input type="checkbox"/>				
Relinquished By / Company Name <u>VHB</u>				State Samples Collected In NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>				
1	<u>Ben Deede</u>	Date	Time	Received By / Company Name	Date	Time	Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
3								
5								
7								
9								

\* G=Grab; C=Composite \*\*Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057

Rev 11/18





301 Filling Mill Road  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **1**  
ALS Quote #: **of 2**

Client Name: VHB		Container Type	CG	P	AG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	40 ml	125 ml	1 L	125 ml	W.O. Temp: Therm ID:	
Contact: Ben Deede		Preservative	MeOH	HNO3	-	HNO3	Courier/Tracking #:	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						
Project Name/ID: Caneel Bay USVI		Purchase Order #: 211101051						
Bill To: VHB, Montpelier, VT		Project Comments:						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor						
Date Required: Approved?		<input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment						
Email: <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rkay@vhb.com		Other:						
Fax: <input type="checkbox"/> -Y No.:		Sample/COC Comments						
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.				
1	MW-2-07	11/17/21	10:30	3	1	2		
2	MW-2-09	11/17/21	11:45	3	1	2		
3	Dug Well 1	11/17/21	13:40	3				
4	Dug Well 2	11/17/21	14:30	3				
5	MW-2-06	11/18/21	07:40	3	1	2		
6	MW-2-21	11/18/21	11:30	3				
7	MW-2-22 + MS/MSD	11/18/21	11:45	9				
8	MW-104	11/18/21	12:00	3				
9	EB-WATER-20211118	11/18/21	13:30	3				
10	Trip Blank	11/18/21	NA	3				
SAMPLER COMMENTS: Ben Deede (BND), Ben Bilas (BRB)				Insufficient volume for 4 bottles				
Relinquished By / Company Name				Received By / Company Name		Date		
1 Ben Deede VHB				11/18/21		11:00		
3				4		6		
5				6		8		
7				8		10		
9				10				
Matrix: A=Air, DW=Drinking Water, GW=Groundwater, OL=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater				EDDS: Formal Type				
G=Grab, C=Composite				Reportable to PADEP?				
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
				PWSID #				
				Deliverables				
				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD				
				Special Processing				
				USACE <input type="checkbox"/> Navy <input type="checkbox"/>				
				State Samples Collected In				
				<input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other				





301 Filling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **2**  
of **2**  
ALS Quote #:

Client Name: VHB		Container Type	AG	CG	CG	P	Receipt Information (completed by Receiving Lab)	
Address: 100 Slate Street, Suite 600, Montpelier, VT 05602		Container Size	1 L	8 oz	8 oz	1 gallon	W.O. Temp: Therm ID:	
Contact: Ben Deede		Preservative	-	-	-	-	Courier/Tracking #: Purchase Order # 211101051	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED						
Project Name/ID: Caneel Bay USVI		Project Comments:						
Bill To: VHB, Montpelier, VT		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other:						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		Sample/COC Comments						
Date Required: Approved?								
Email? <input checked="" type="checkbox"/> X-Y bdeede@vhb.com, rkay@vhb.com								
Fax? <input type="checkbox"/> -Y No:								
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yyyy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.				
11 IDW-Water		11/18/21	15:30	C	W	6		
12 IDW-Soil		11/18/21	15:30	C	W	1	1	
13 IA-Ref-05 A		11/19/21	08:50	C	S		1	
14 IA-Ref-05 B		11/19/21	10:00	C	S		1	
15 IA-Ref-05 C		11/19/21	10:10	C	S		1	
16								
17								
18								
19								
20								
SAMPLER BY (Please Print): Ben Deede (BND), Ben Bliss (BRB)		Sampler Comments:						
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 Ben Bliss VHB		11/19/21	14:00	2				
3				4				
5				6				
7				8				
9				10				
* G=Grab, C=Composite		**Matrix - Al=Air, DW=Drinking Water, GW=Groundwater, Ol=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater						
ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057		Rev 11/18						



[illegible]

FedEx Tracking Number		8128 4626 3396		Form ID No.		0402	
4 Express Package Service							
NOTE: Service order has changed. Please select carefully.							
16 FedEx Intl. First		01 FedEx Intl. Priority		03 FedEx Intl. Economy			
5 Packaging							
16 FedEx Envelope		02 FedEx Pak		03 FedEx Box		04 FedEx Tube	
15 FedEx 10kg Box		25 FedEx 25kg Box		01 X Other		0011	
6 Special Handling and Delivery Signature Options							
11 HOLD at FedEx Location		03 X SATURDAY Delivery		FedEx may apply. See the FedEx Service Guide.			
0 Direct Signature		34 Indirect Signature		If no one is available at recipient's address, someone at a neighboring address may sign for delivery for residential deliveries only.			
7 Payment							
Complete payment options for both transportation charges and access and taxes.							
Bill transportation charges to:							
1 Sender		2 Recipient		3 Third Party		4 Credit Card	
1 X Sender		2 Recipient		3 Third Party		4 Cash	
FedEx Access No.		FedEx Access No.		FedEx Access No.		FedEx Access No.	
Credit Card No.		Credit Card No.		Credit Card No.		Credit Card No.	
Bill duties and taxes to:		Total FedEx Access No. Indemn.		Total FedEx Access No. Indemn.		Total FedEx Access No. Indemn.	
1 X Sender		2 Recipient		3 Third Party		4 Cash	
FedEx Access No.		FedEx Access No.		FedEx Access No.		FedEx Access No.	
8 Required Signature							
Use of the Air Waybill constitutes agreement to the Conditions of Carriage on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or other export controls. Certain international treaties, including the Warsaw or Montreal Convention, may apply to this shipment and limit our liability for damage, loss, or delay as described in the Conditions of Carriage.							
WARRANTY: These commodities, technology, or software will be transported in accordance with the United States Export Administration Regulations. Diversion contrary to U.S. law prohibited.							
Sender's Signature:		Sender's Signature:		Sender's Signature:		Sender's Signature:	
Origin Station ID		Country Code/Destination Station ID		UNSC Handling		Handling Units	
51A		INDIA		Xm DTA		Total Volume (cm)	
Received At		On Day		On Day		On Day	
1 X		1 X		1 X		1 X	
Declared Value		Declared Value		Declared Value		Declared Value	
1 X		1 X		1 X		1 X	
Signature		Signature		Signature		Signature	
1 X		1 X		1 X		1 X	
Total Volume (cm)		Total Volume (cm)		Total Volume (cm)		Total Volume (cm)	
1 X		1 X		1 X		1 X	
Permit No.		Permit No.		Permit No.		Permit No.	
1 X		1 X		1 X		1 X	
Total Volume (cm)		Total Volume (cm)		Total Volume (cm)		Total Volume (cm)	
1 X		1 X		1 X		1 X	

VHB  
 COMPANY NAME 541K 600  
 100 State St, Montpelier, VT, 05602  
 COMPANY ADDRESS

INTERNATIONAL  
 AIR WAYBILL NO. 8128 4626 3396 0402  
 (NOTE: All shipments must be accompanied by a Federal Express International Air Waybill.)

DATE OF EXPORTATION 11/19/21

SHIPPER/EXPORTER (complete name and address)  
 Ben Dede  
 100 State St, Suite 600  
 Montpelier, VT  
 05602  
 bdede@vhs.com

COUNTRY OF EXPORT USVI

COUNTRY OF MANUFACTURE USA

COUNTRY OF ULTIMATE DESTINATION USA

IMPORTER - IF OTHER THAN CONSIGNEE (complete name and address)  
 Sarah Leung  
 301 Fuller Mill Rd  
 Montpelier, VT  
 05602  
 m.dedede@vhs.com

EXPORT REFERENCES (i.e., order no., invoice no.)

MARKS NOS.	NO. OF PKGS.	TYPE OF PACKAGING	QUANTITY	UNIT	UNIT OF MEASURE	WEIGHT	UNIT VALUE	TOTAL VALUE
1	1	Loose	1	LB	50	1.66	1.66	1.66
Environmental Samples								

TOTAL	NO. OF PKGS.	TOTAL	WEIGHT	TOTAL	INVOICE VALUE	TOTAL
1	1	50	1.66	1.66	1.66	1.66

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I DECLARE ALL THE INFORMATION CONTAINED IN THIS INVOICE TO BE TRUE AND CORRECT.

SIGNATURE OF SHIPPER/EXPORTER (Type name and sign)  
 11/19/21

## SDG 3222512– Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
Dug Well 2	01/13/2022	8260D 8270D 8081B 8082A 6020A	Primary
Trip Blank	01/13/2022	8260D 8270D 8081B 8082A 6020A	Blank

#### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3222512 listed the sample dates as 01/13/2022. According to the COCs, the temperature of the cooler at receipt was 0°C and in acceptable condition. No qualification on sample results is warranted based on holding times requirements.

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were completed for the SDG.

#### II. Initial Calibration

The initial calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### III. Continuing Calibration

The continuing calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### IV. Blanks



## Sample Delivery Group 3222512 – Data Review

Five method blanks (3448611MB, 3449667MB, 3448568MB, 3448577MB, and 3447721MB) was analyzed in SDG 3222512 using 8260D, 8270D, 8081B, 8082A, and 6020A. The method blanks had no detections; therefore, no qualification is necessary.

One trip blank was analyzed for the samples in SDG 3222512. The trip blank had detections for bromomethane; therefore, the detection is qualified J;TB.

### **V. Surrogate Percent Recovery Compounds**

All reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3222512 met QC criteria except for Terphenyl-d14 for method 8270D; therefore, the surrogate is qualified J;SUR.

### **VI. Matrix Spikes/ Matrix Spike Duplicates**

The MS/MSD was analyzed for various VOCs to identify the interaction of the sample matrix. EPA 8260D was completed using a sample Dug Well 2. The percent recoveries were within QC limits except for chloroethane. The affected sample is qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed for SVOCs to identify the interaction of the sample matrix. EPA 8270D was completed using matrix that is site derived, but from another SDG; therefore, no qualification of the data is necessary.

The MS/MSD was analyzed for various pesticides to identify the interaction of the sample matrix. EPA 8081B was completed using a sample Dug Well 2. The percent recoveries were within QC limits except for 4,4'-DDT; therefore, the affected samples are qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed for various metals to identify the interaction of the sample matrix. EPA 6020A was completed using a matrix that is not site derived and therefore cannot evaluate precision; sample 3222369030 is qualified with J;MS and J;MSD (U;MS and U;MSD if result is ND).

The MS/MSD was analyzed for various metals to identify the interaction of the sample matrix. EPA 6020A was completed using a sample Dug Well 2. The percent recoveries were within QC limits; therefore, no qualification is necessary.

### **VII. Duplicate Analysis MSD**

All relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

**VIII. Laboratory Control Sample/ Laboratory Control Sample Duplicates**

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3222512. Percent recoveries were within acceptable QC limits; therefore, no qualification of the data is necessary.

**IX. Regional Quality Assurance and Quality Control**

No field duplicates were completed for SDG 3222512.

**X. Completeness**

Prescribed field sampling of SDG 3222512 was completed according to the sampling design.

Laboratory analysis of SDG 3222512 was completed according to the COC and has a completeness score of 100%.

**XI. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XII. Internal Standards**

Internal standard area counts for the samples were within the upper and lower quality control limits. No assessment of the data is necessary based on acceptable internal standard area counts.

**XIII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. No discrepancies were identified.

**XIV. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were not reported in the SDG data package.

**XV. System Performance**

A review of instrument quality control performance was not completed for SDG 3222512.



**XVI. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

Multiple “J” flags were assigned; however, no data were rejected. Completeness goals were met.



301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | [www.alsglobal.com](http://www.alsglobal.com)

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

**VHB - Vermont**

Project 2022-Caneel Bay Resort USVI

Workorder 3222512

Report ID 145075 on 1/25/2022

## Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jan 15, 2022.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.  
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ben Deede - VHB

Rhonda Kay - VHB - Vermont

*Sarah Leung*

**Sarah Leung**

(ALS Digital Signature)

Project Coordinator

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

AR 004324



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3222512001	Dug Well 2	Water	01/13/2022 11:40 AM	01/15/2022 9:09 AM	CBC	Collected By Client
3222512002	Trip Blank	Water	01/13/2022 11:40 AM	01/15/2022 9:09 AM	CBC	Collected By Client

## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits



Project Notations

8270 PAH testing added per the request of Rhonda Key. EMP 1/20/22

Sample Notations

Lab ID Sample ID

Result Notations

Notation #	
1	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 145 and the control limits were 51 to 142.
2	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 34.6 and the control limits were 41 to 145. This result was reported at a dilution of 1.
3	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits in the batch laboratory control sample. The % Recovery was reported as 32.2 and the control limits were 41 to 145. This result was reported at a dilution of 1.
4	The QC sample type MS for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The % Recovery was reported as 52.8 and the control limits were 58 to 140.





Project 2022-Caneel Bay Resort USVI  
 Workorder 3222512

Client Sample ID	Dug Well 2	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512001	Lab Receipt	01/15/2022 9:09 AM

**Volatiles - GC/MS**  
**SW846 8260D**

**Prep**

<u>Method</u>	N/A	<u>Container</u>	3222512001-A(Hydrochloric Acid)
<u>Batch</u>	N/A	<u>Aliquot</u>	5 mL
<u>Date</u>	N/A	<u>Tech.</u>	N/A

**Analysis**

<u>Method</u>	SW846 8260D	<u>Fraction</u>	
<u>Batch</u>	813657	<u>Dilution</u>	1
<u>Date</u>	01/19/2022 2:33 PM	<u>Analyst</u>	TMP

**RESULTS**

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	5.0J	ug/L	10.0	3.1	C,J
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	ND	ug/L	1.0	0.39	C,ND
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;M
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

AR 004328



Client Sample ID	Dug Well 2	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512001	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 - 133	
4-Bromofluorobenzene	460-00-4	102%	79 - 114	
Dibromofluoromethane	1868-53-7	103%	78 - 116	
Toluene-d8	2037-26-5	106%	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	3222512001-G(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 2:22 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	1.1J	ug/L	6.0	1.0	C,J

AR 004329



Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

Client Sample ID Dug Well 2  
Lab Sample ID 3222512001

Collected 01/13/2022 11:40 AM  
Lab Receipt 01/15/2022 9:09 AM

#### RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	72.90 %	24 - 116	
Nitrobenzene-d5	4165-60-0	76.50 %	32 - 125	
Terphenyl-d14	98904-43-9	34.60 %	41 - 145	J,SU

#### Semi-Volatiles - GC SW846 8081B

##### Prep

Method SW846 3511 Container 3222512001-D(Unpreserved)  
Batch 813623 Aliquot 100 mL  
Date 01/18/2022 4:50 PM Tech. AJW

##### Analysis

Method SW846 8081B Fraction Pest  
Batch 813745 Dilution 1  
Date 01/19/2022 12:08 PM Analyst KJH

#### RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
4,4'-DDD	72-54-8	ND	ug/L	0.020	0.0072	C,ND
4,4'-DDE	72-55-9	ND	ug/L	0.020	0.0026	C,ND
4,4'-DDT	50-29-3	ND	ug/L	0.020	0.013	U;M
Aldrin	309-00-2	ND	ug/L	0.020	0.0026	C,ND
alpha-Chlordane	5103-71-9	ND	ug/L	0.020	0.0080	C,ND
alpha-HCH (alpha-BHC)	319-84-6	ND	ug/L	0.020	0.0031	C,ND
beta-BHC	319-85-7	ND	ug/L	0.020	0.0060	C,ND
delta-BHC	319-86-8	ND	ug/L	0.020	0.0029	C,ND
Dieldrin	60-57-1	ND	ug/L	0.020	0.0047	C,ND
Endosulfan I	959-98-8	ND	ug/L	0.020	0.0057	C,ND
Endosulfan II	33213-65-9	ND	ug/L	0.020	0.012	C,ND
Endosulfan Sulfate	1031-07-8	ND	ug/L	0.020	0.0090	C,ND
Endrin	72-20-8	ND	ug/L	0.020	0.0060	C,ND
Endrin Aldehyde	7421-93-4	ND	ug/L	0.020	0.0077	C,ND
Endrin Ketone	53494-70-5	ND	ug/L	0.020	0.010	C,ND
gamma-BHC	58-89-9	ND	ug/L	0.020	0.0048	C,ND
gamma-Chlordane	5103-74-2	ND	ug/L	0.020	0.0049	C,ND
Heptachlor	76-44-8	ND	ug/L	0.020	0.0059	C,ND
Heptachlor Epoxide	1024-57-3	ND	ug/L	0.020	0.0040	C,ND
Methoxychlor	72-43-5	ND	ug/L	0.020	0.014	C,ND
Toxaphene	8001-35-2	ND	ug/L	1.0	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	41.40 %	30 - 140	

AR 004330

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1/25/2022 1:44 PM

KAK

7 of 30



Client Sample ID	Dug Well 2	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512001	Lab Receipt	01/15/2022 9:09 AM

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl.	2051-24-3X	42.90 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	55.60 %	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	55 %	30 - 123	

Semi-Volatiles - GC  
SW846 8082A

Prep

Method	SW846 3511	Container	3222512001-F(Unpreserved)
Batch	813625	Aliquot	100 mL
Date	01/18/2022 4:50 PM	Tech.	AJW

Analysis

Method	SW846 8082A	Fraction	Aroclor
Batch	813717	Dilution	1
Date	01/19/2022 1:35 PM	Analyst	EGO

RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.50	0.17	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.50	0.28	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.50	0.18	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.50	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.50	0.14	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.50	0.070	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.50	0.21	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.50	0.14	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.50	0.19	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	35 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	33.90 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	59.50 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	51.20 %	30 - 133	

Metals Analytical  
SW846 6020A

Prep

Method	SW846 3015	Container	3222512001-H1(Nitric Acid)
Batch	813236	Aliquot	45 mL
Date	01/16/2022 1:15 PM	Tech.	AHI

Analysis

Method	SW846 6020A	Fraction	ICP_MS
Batch	813655	Dilution	1
Date	01/19/2022 4:01 PM	Analyst	MO

RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Arsenic, Total	7440-38-2	0.0023J	mg/L	0.0033	0.0011	J;MS J;MSD
Barium, Total	7440-39-3	0.40	mg/L	0.0056	0.0019	J;MS J;MSD
Lead, Total	7439-92-1	ND	mg/L	0.0022	0.00074	U;MS U;MSD

AR 004331



Client Sample ID	Dug Well 2	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512001	Lab Receipt	01/15/2022 9:09 AM





Client Sample ID	Trip Blank	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512002	Lab Receipt	01/15/2022 9:09 AM

Volatiles - GC/MS  
SW846 8260D

Prep

Method	N/A	Container	3222512002-A(Hydrochloric Acid)
Batch	N/A	Aliquot	5 mL
Date	N/A	Tech.	N/A

Analysis

Method	SW846 8260D	Fraction	
Batch	813657	Dilution	1
Date	01/19/2022 1:25 PM	Analyst	TMP

RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	ND	ug/L	10.0	3.1	C,ND
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	0.41J	ug/L	1.0	0.39	J,T
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	C,ND
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

AR 004333



Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

Client Sample ID	Trip Blank	Collected	01/13/2022 11:40 AM
Lab Sample ID	3222512002	Lab Receipt	01/15/2022 9:09 AM

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 - 133	
4-Bromofluorobenzene	460-00-4	102%	79 - 114	
Dibromofluoromethane	1868-53-7	101%	78 - 116	
Toluene-d8	2037-26-5	106%	76 - 127	

AR 004334



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3222512001	Dug Well 2	SW846 6020A	SW846 3015	
		SW846 8081B	SW846 3511	
		SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222512002	Trip Blank	SW846 8260D	N/A	



QUALITY CONTROL SAMPLES

Volatiles - GC/MS  
SW846 8260D

QC Batch

QC Batch813657

Prep MethodN/A

DateN/A

Analysis MethodSW846 8260D

TechN/A

Method Blank3448611 (MB)Created on 01/18/2022 6:02 PMFor QC Batch 813657

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND



Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.90	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.10	30	104	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.30	30	108	76 - 127	

**Lab Control Standard** 3448612 (LCS) Created on 01/18/2022 6:02 PM For QC Batch 813657

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.30	20	106	66 - 130	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.80	20	104	74 - 135	
1,1,2-Trichloroethane	79-00-5	LCS	20.90	20	104	82 - 126	
1,1-Dichloroethane	75-34-3	LCS	19.70	20	98.70	78 - 124	
1,1-Dichloroethene	75-35-4	LCS	21.80	20	109	63 - 128	
1,2,3-Trichlorobenzene	87-61-6	LCS	22	20	110	61 - 126	
1,2,4-Trichlorobenzene	120-82-1	LCS	21.60	20	108	67 - 123	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90	20	94.70	59 - 133	
1,2-Dibromoethane	106-93-4	LCS	20.80	20	104	80 - 124	
1,2-Dichlorobenzene	95-50-1	LCS	20.50	20	103	82 - 118	
1,2-Dichloroethane	107-06-2	LCS	20.10	20	101	70 - 133	
1,2-Dichloropropane	78-87-5	LCS	20.50	20	103	81 - 127	
1,3-Dichlorobenzene	541-73-1	LCS	20.10	20	101	81 - 118	
1,4-Dichlorobenzene	106-46-7	LCS	19.80	20	99.20	81 - 116	
2-Butanone	78-93-3	LCS	110	100	110	50 - 152	
2-Hexanone	591-78-6	LCS	111	100	111	65 - 154	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	98	100	98	71 - 146	
Acetone	67-64-1	LCS	137	100	137	40 - 151	
Benzene	71-43-2	LCS	20.40	20	102	80 - 124	

AR 004337

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Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	21.10	20	105	73 - 117	
Bromodichloromethane	75-27-4	LCS	19.80	20	98.80	79 - 126	
Bromoform	75-25-2	LCS	17.60	20	88	70 - 123	
Bromomethane	74-83-9	LCS	21	20	105	45 - 148	
Carbon Disulfide	75-15-0	LCS	21	20	105	57 - 131	
Carbon Tetrachloride	56-23-5	LCS	19.30	20	96.60	62 - 132	
Chlorobenzene	108-90-7	LCS	20	20	99.80	85 - 117	
Chlorodibromomethane	124-48-1	LCS	19.20	20	95.80	77 - 122	
Chloroethane	75-00-3	LCS	21.60	20	108	51 - 142	
Chloroform	67-66-3	LCS	20.10	20	101	78 - 122	
Chloromethane	74-87-3	LCS	17.60	20	88	38 - 156	
cis-1,2-Dichloroethene	156-59-2	LCS	20.60	20	103	78 - 125	
cis-1,3-Dichloropropene	10061-01-5	LCS	18.30	20	91.70	81 - 121	
Cyclohexane	110-82-7	LCS	21.90	20	109	66 - 130	
Dichlorodifluoromethane	75-71-8	LCS	17.10	20	85.60	17 - 166	
Ethylbenzene	100-41-4	LCS	20.20	20	101	80 - 124	
Freon 113	76-13-1	LCS	23.30	20	116	50 - 130	
Isopropylbenzene	98-82-8	LCS	21.10	20	105	73 - 129	
Methyl acetate	79-20-9	LCS	22.60	20	113	70 - 130	
Methyl cyclohexane	108-87-2	LCS	21.90	20	109	70 - 130	
Methyl t-Butyl Ether	1634-04-4	LCS	21.20	20	106	69 - 115	
Methylene Chloride	75-09-2	LCS	20.60	20	103	76 - 121	
mp-Xylene	108383/106423	LCS	42.30	40	106	79 - 125	
o-Xylene	95-47-6	LCS	20.20	20	101	79 - 124	
Styrene	100-42-5	LCS	21.30	20	106	79 - 123	
Tetrachloroethene	127-18-4	LCS	20.30	20	102	72 - 124	
Toluene	108-88-3	LCS	20.50	20	103	80 - 125	
Total Xylenes	1330-20-7	LCS	62.50	60	104	79 - 125	
trans-1,2-Dichloroethene	156-60-5	LCS	20.20	20	101	71 - 122	
trans-1,3-Dichloropropene	10061-02-6	LCS	19.30	20	96.60	78 - 126	
Trichloroethene	79-01-6	LCS	19.70	20	98.50	77 - 124	
Trichlorofluoromethane	75-69-4	LCS	18.70	20	93.70	38 - 123	
Vinyl Chloride	75-01-4	LCS	17.50	20	87.40	27 - 138	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.70	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.10	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	LCS	31.40	30	105	76 - 127	

**Matrix Spike** 3448917 (MS) Aliquot from 3222512001 For QC Batch 813657

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3448918 (MSD) Aliquot from 3222512001 For QC Batch 813657

AR 004338



Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	22.10	20	110	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	21.90	20	109	66 - 130	RPD	<u>0.85</u> (Max-20)
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.30	20	102	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	20.40	20	102	74 - 135	RPD	<u>0.21</u> (Max-16)
1,1,2-Trichloroethane	79-00-5	MS	19.60	20	98.20	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	20.20	20	101	82 - 126	RPD	<u>2.60</u> (Max-15)
1,1-Dichloroethane	75-34-3	MS	21.60	20	108	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	21	20	105	78 - 124	RPD	<u>2.73</u> (Max-15)
1,1-Dichloroethene	75-35-4	MS	23.10	20	116	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	23	20	115	63 - 128	RPD	<u>0.40</u> (Max-21)
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	20	91	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.90	20	99.40	61 - 126	RPD	<u>8.88</u> (Max-36)
1,2,4-Trichlorobenzene	120-82-1	MS	18.30	20	91.60	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	19.80	20	98.90	67 - 123	RPD	<u>7.63</u> (Max-22)
1,2-Dibromo-3-chloropropane	96-12-8	MS	17.70	20	88.30	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18.10	20	90.50	59 - 133	RPD	<u>2.44</u> (Max-26)
1,2-Dibromoethane	106-93-4	MS	19.40	20	96.80	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19.80	20	98.80	80 - 124	RPD	<u>2.06</u> (Max-19)
1,2-Dichlorobenzene	95-50-1	MS	20.10	20	100	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	20.80	20	104	82 - 118	RPD	<u>3.42</u> (Max-15)
1,2-Dichloroethane	107-06-2	MS	21.10	20	106	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.90	20	105	70 - 133	RPD	<u>0.90</u> (Max-19)
1,2-Dichloropropane	78-87-5	MS	21.20	20	106	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	21	20	105	81 - 127	RPD	<u>1.03</u> (Max-15)
1,3-Dichlorobenzene	541-73-1	MS	19.80	20	98.80	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	20.70	20	103	81 - 118	RPD	<u>4.44</u> (Max-16)
1,4-Dichlorobenzene	106-46-7	MS	19.80	20	99.10	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	20.20	20	101	81 - 116	RPD	<u>2.15</u> (Max-15)
2-Butanone	78-93-3	MS	94.70	100	94.70	50 - 152		
2-Butanone	78-93-3	MSD	102	100	102	50 - 152	RPD	<u>7.06</u> (Max-16)
2-Hexanone	591-78-6	MS	97.80	100	97.80	65 - 154		
2-Hexanone	591-78-6	MSD	98.50	100	98.50	65 - 154	RPD	<u>0.75</u> (Max-17)
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	92.50	100	92.50	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	93.40	100	93.40	71 - 146	RPD	<u>0.94</u> (Max-16)
Acetone	67-64-1	MS	91.70	105	86.70	40 - 151		
Acetone	67-64-1	MSD	96	105	91	40 - 151	RPD	<u>4.55</u> (Max-40)
Benzene	71-43-2	MS	21.40	20	107	80 - 124		
Benzene	71-43-2	MSD	21.40	20	107	80 - 124	RPD	<u>0.12</u> (Max-26)
Bromochloromethane	74-97-5	MS	20.70	20	103	73 - 117		
Bromochloromethane	74-97-5	MSD	20.30	20	101	73 - 117	RPD	<u>1.98</u> (Max-19)
Bromodichloromethane	75-27-4	MS	20.40	20	102	79 - 126		
Bromodichloromethane	75-27-4	MSD	20.50	20	103	79 - 126	RPD	<u>0.70</u> (Max-16)
Bromoform	75-25-2	MS	14.80	20	73.80	70 - 123		
Bromoform	75-25-2	MSD	15.60	20	78	70 - 123	RPD	<u>5.64</u> (Max-16)
Bromomethane	74-83-9	MS	17.80	20	89.20	45 - 148		
Bromomethane	74-83-9	MSD	19.40	20	97.10	45 - 148	RPD	<u>8.50</u> (Max-26)
Carbon Disulfide	75-15-0	MS	21.20	20	106	57 - 131		
Carbon Disulfide	75-15-0	MSD	21.20	20	106	57 - 131	RPD	<u>0.11</u> (Max-28)
Carbon Tetrachloride	56-23-5	MS	19	20	95.20	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	19.10	20	95.30	62 - 132	RPD	<u>0.14</u> (Max-17)
Chlorobenzene	108-90-7	MS	20.30	20	101	85 - 117		

AR 004339

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Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
Chlorobenzene	108-90-7	MSD	20.60	20	103	85 - 117	RPD	1.79	(Max-15)
Chlorodibromomethane	124-48-1	MS	17.10	20	85.70	77 - 122			
Chlorodibromomethane	124-48-1	MSD	17.70	20	88.40	77 - 122	RPD	3.09	(Max-15)
Chloroethane	75-00-3	MS	28.90	20	145	51 - 142			
Chloroethane	75-00-3	MSD	27.40	20	137	51 - 142	RPD	5.42	(Max-24)
Chloroform	67-66-3	MS	21.30	20	106	78 - 122			
Chloroform	67-66-3	MSD	20.90	20	104	78 - 122	RPD	2.06	(Max-16)
Chloromethane	74-87-3	MS	17.30	20	86.70	38 - 156			
Chloromethane	74-87-3	MSD	17.70	20	88.30	38 - 156	RPD	1.84	(Max-27)
cis-1,2-Dichloroethene	156-59-2	MS	21.80	20	109	78 - 125			
cis-1,2-Dichloroethene	156-59-2	MSD	21.40	20	107	78 - 125	RPD	1.61	(Max-21)
cis-1,3-Dichloropropene	10061-01-5	MS	17.20	20	86.10	81 - 121			
cis-1,3-Dichloropropene	10061-01-5	MSD	17.10	20	85.40	81 - 121	RPD	0.80	(Max-16)
Cyclohexane	110-82-7	MS	22.60	20	113	66 - 130			
Cyclohexane	110-82-7	MSD	22.40	20	112	66 - 130	RPD	0.55	(Max-20)
Dichlorodifluoromethane	75-71-8	MS	18.50	20	92.70	17 - 166			
Dichlorodifluoromethane	75-71-8	MSD	19	20	95.10	17 - 166	RPD	2.61	(Max-24)
Ethylbenzene	100-41-4	MS	20.60	20	103	80 - 124			
Ethylbenzene	100-41-4	MSD	20.70	20	104	80 - 124	RPD	0.81	(Max-19)
Freon 113	76-13-1	MS	23.40	20	117	50 - 130			
Freon 113	76-13-1	MSD	24.40	20	122	50 - 130	RPD	3.90	(Max-26)
Isopropylbenzene	98-82-8	MS	21.50	20	107	73 - 129			
Isopropylbenzene	98-82-8	MSD	22.20	20	111	73 - 129	RPD	3.51	(Max-18)
Methyl acetate	79-20-9	MS	15	20	74.90	70 - 130			
Methyl acetate	79-20-9	MSD	15.60	20	78	70 - 130	RPD	4.11	(Max-18)
Methyl cyclohexane	108-87-2	MS	20.60	20	103	70 - 130			
Methyl cyclohexane	108-87-2	MSD	21.30	20	107	70 - 130	RPD	3.34	(Max-18)
Methyl t-Butyl Ether	1634-04-4	MS	20.50	20	102	69 - 115			
Methyl t-Butyl Ether	1634-04-4	MSD	20.80	20	104	69 - 115	RPD	1.47	(Max-20)
Methylene Chloride	75-09-2	MS	21.50	20	108	76 - 121			
Methylene Chloride	75-09-2	MSD	21.20	20	106	76 - 121	RPD	1.54	(Max-17)
mp-Xylene	108383/106423	MS	42.70	40	107	79 - 125			
mp-Xylene	108383/106423	MSD	43.20	40	108	79 - 125	RPD	1.11	(Max-21)
o-Xylene	95-47-6	MS	20.20	20	101	79 - 124			
o-Xylene	95-47-6	MSD	20.50	20	102	79 - 124	RPD	1.54	(Max-19)
Styrene	100-42-5	MS	21.60	20	108	79 - 123			
Styrene	100-42-5	MSD	21.90	20	109	79 - 123	RPD	1.56	(Max-16)
Tetrachloroethene	127-18-4	MS	19	20	95.10	72 - 124			
Tetrachloroethene	127-18-4	MSD	19.40	20	97.20	72 - 124	RPD	2.26	(Max-38)
Toluene	108-88-3	MS	20.70	20	103	80 - 125			
Toluene	108-88-3	MSD	20.80	20	104	80 - 125	RPD	0.35	(Max-20)
Total Xylenes	1330-20-7	MS	62.90	60	105	79 - 125			
Total Xylenes	1330-20-7	MSD	63.60	60	106	79 - 125	RPD	1.25	(Max-35)
trans-1,2-Dichloroethene	156-60-5	MS	21.50	20	108	71 - 122			
trans-1,2-Dichloroethene	156-60-5	MSD	21.60	20	108	71 - 122	RPD	0.41	(Max-22)
trans-1,3-Dichloropropene	10061-02-6	MS	18	20	90	78 - 126			
trans-1,3-Dichloropropene	10061-02-6	MSD	17.90	20	89.60	78 - 126	RPD	0.44	(Max-18)
Trichloroethene	79-01-6	MS	20.30	20	102	77 - 124			
Trichloroethene	79-01-6	MSD	20.40	20	102	77 - 124	RPD	0.28	(Max-18)
Trichlorofluoromethane	75-69-4	MS	24.30	20	121	38 - 123			
Trichlorofluoromethane	75-69-4	MSD	23	20	115	38 - 123	RPD	5.48	(Max-23)
Vinyl Chloride	75-01-4	MS	20.70	20	104	27 - 138			

AR 004340

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Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
Vinyl Chloride	75-01-4	MSD	19.90	20	99.50	27 - 138	RPD	4.13 (Max-40)	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.70	30	102	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.60	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.70	30	95.80	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.80	30	99.20	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.80	30	106	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	31.60	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	30.40	30	101	76 - 127	
Toluene-d8	2037-26-5	MSD	30.70	30	102	76 - 127	

AR 004341



Semi-Volatiles - GC/MS  
SW846 8270D

QC Batch

QC Batch	814300	Prep Method	SW846 3510C
Date	01/20/2022 4:30 PM	Analysis Method	SW846 8270D
Tech.	JIH		

Matrix Spike 3449669 (MS) Aliquot from 3222517003 For QC Batch 814300

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3449670 (MSD) Aliquot from 3222517003 For QC Batch 814300

RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	MS	39.50	50	79.10	36 - 130	
Acenaphthene	83-32-9	MSD	42.10	50	84.20	36 - 130	RPD 6.23 (Max-30)
Acenaphthylene	208-96-8	MS	41.50	50	82.90	39 - 130	
Acenaphthylene	208-96-8	MSD	44.50	50	89	39 - 130	RPD 7.08 (Max-30)
Anthracene	120-12-7	MS	37.80	50	75.60	48 - 133	
Anthracene	120-12-7	MSD	39.60	50	79.30	48 - 133	RPD 4.80 (Max-30)
Benzo(a)anthracene	56-55-3	MS	36.80	50	73.70	51 - 127	
Benzo(a)anthracene	56-55-3	MSD	39.60	50	79.10	51 - 127	RPD 7.16 (Max-30)
Benzo(a)pyrene	50-32-8	MS	36.80	50	73.60	53 - 127	
Benzo(a)pyrene	50-32-8	MSD	40.10	50	80.20	53 - 127	RPD 8.52 (Max-30)
Benzo(b)fluoranthene	205-99-2	MS	38.50	50	76.90	53 - 131	
Benzo(b)fluoranthene	205-99-2	MSD	41.20	50	82.40	53 - 131	RPD 6.81 (Max-30)
Benzo(g,h,i)perylene	191-24-2	MS	38.70	50	77.50	54 - 131	
Benzo(g,h,i)perylene	191-24-2	MSD	41.90	50	83.80	54 - 131	RPD 7.77 (Max-30)
Benzo(k)fluoranthene	207-08-9	MS	39.20	50	78.50	52 - 130	
Benzo(k)fluoranthene	207-08-9	MSD	42.30	50	84.70	52 - 130	RPD 7.65 (Max-30)
Chrysene	218-01-9	MS	38.30	50	76.60	50 - 131	
Chrysene	218-01-9	MSD	41.30	50	82.60	50 - 131	RPD 7.54 (Max-30)
Dibenzo(a,h)anthracene	53-70-3	MS	40	50	80.10	56 - 130	
Dibenzo(a,h)anthracene	53-70-3	MSD	42.40	50	84.70	56 - 130	RPD 5.67 (Max-30)
Fluoranthene	206-44-0	MS	38.60	50	77.20	49 - 132	
Fluoranthene	206-44-0	MSD	40.90	50	81.90	49 - 132	RPD 5.89 (Max-30)
Fluorene	86-73-7	MS	38	50	76	42 - 131	
Fluorene	86-73-7	MSD	39.90	50	79.80	42 - 131	RPD 4.82 (Max-30)
Indeno(1,2,3-cd)pyrene	193-39-5	MS	39	50	78.10	55 - 126	
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	42	50	84	55 - 126	RPD 7.30 (Max-30)
Naphthalene	91-20-3	MS	35.50	50	71	21 - 123	
Naphthalene	91-20-3	MSD	38.80	50	77.60	21 - 123	RPD 8.89 (Max-30)
Phenanthrene	85-01-8	MS	39.10	50	78.20	46 - 131	
Phenanthrene	85-01-8	MSD	41.80	50	83.60	46 - 131	RPD 6.57 (Max-30)
Pyrene	129-00-0	MS	41.40	50	82.80	48 - 134	
Pyrene	129-00-0	MSD	44.30	50	88.60	48 - 134	RPD 6.69 (Max-30)





Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	MS	23.20	50	46.50	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	37.70	50	75.30	24 - 116	
Nitrobenzene-d5	4165-60-0	MS	24.20	50	48.40	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	42.30	50	84.60	32 - 125	
Terphenyl-d14	98904-43-9	MS	9.50	50	19.10	41 - 145	
Terphenyl-d14	98904-43-9	MSD	13	50	25.90	41 - 145	

**Method Blank** 3449667 (MB) Created on 01/20/2022 2:37 PM For QC Batch 814300

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	BLK	10	12.50	80.40	24 - 116	
Nitrobenzene-d5	4165-60-0	BLK	10.70	12.50	85.80	32 - 125	
Terphenyl-d14	98904-43-9	BLK	6.90	12.50	55.10	41 - 145	

**Lab Control Standard** 3449668 (LCS) Created on 01/20/2022 2:37 PM For QC Batch 814300

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	LCS	11.30	12.50	90.30	36 - 130	
Acenaphthylene	208-96-8	LCS	11.80	12.50	94	39 - 130	
Anthracene	120-12-7	LCS	11.60	12.50	92.80	48 - 133	
Benzo(a)anthracene	56-55-3	LCS	12.10	12.50	96.70	51 - 127	
Benzo(a)pyrene	50-32-8	LCS	12.10	12.50	97.20	53 - 127	
Benzo(b)fluoranthene	205-99-2	LCS	12.50	12.50	100	53 - 131	

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Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Benzo(g,h,i)perylene	191-24-2	LCS	13.20	12.50	106	54 - 131	
Benzo(k)fluoranthene	207-08-9	LCS	13	12.50	104	52 - 130	
Chrysene	218-01-9	LCS	12.50	12.50	99.80	50 - 131	
Dibenzo(a,h)anthracene	53-70-3	LCS	13.30	12.50	107	56 - 130	
Fluoranthene	206-44-0	LCS	11.90	12.50	94.90	49 - 132	
Fluorene	86-73-7	LCS	10.90	12.50	87.50	42 - 131	
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	13.10	12.50	105	55 - 126	
Naphthalene	91-20-3	LCS	9.70	12.50	77.80	21 - 123	
Phenanthrene	85-01-8	LCS	11.90	12.50	95	46 - 131	
Pyrene	129-00-0	LCS	12.80	12.50	103	48 - 134	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	LCS	6.20	12.50	49.20	24 - 116	
Nitrobenzene-d5	4165-60-0	LCS	6.60	12.50	52.60	32 - 125	
Terphenyl-d14	98904-43-9	LCS	4	12.50	32.20	41 - 145	

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## Semi-Volatiles - GC SW846 8081B

### QC Batch

QC Batch	813623	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8081B
Tech.	AJW		

Method Blank 3448568 (MB) Created on 01/18/2022 2:31 PM For QC Batch 813623

### RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers
4,4'-DDD	72-54-8	BLK	ND ug/L	0.020	ND
4,4'-DDE	72-55-9	BLK	ND ug/L	0.020	ND
4,4'-DDT	50-29-3	BLK	ND ug/L	0.020	ND
Aldrin	309-00-2	BLK	ND ug/L	0.020	ND
alpha-Chlordane	5103-71-9	BLK	ND ug/L	0.020	ND
alpha-HCH (alpha-BHC)	319-84-6	BLK	ND ug/L	0.020	ND
beta-BHC	319-85-7	BLK	ND ug/L	0.020	ND
delta-BHC	319-86-8	BLK	ND ug/L	0.020	ND
Dieldrin	60-57-1	BLK	ND ug/L	0.020	ND
Endosulfan I	959-98-8	BLK	ND ug/L	0.020	ND
Endosulfan II	33213-65-9	BLK	ND ug/L	0.020	ND
Endosulfan Sulfate	1031-07-8	BLK	ND ug/L	0.020	ND
Endrin	72-20-8	BLK	ND ug/L	0.020	ND
Endrin Aldehyde	7421-93-4	BLK	ND ug/L	0.020	ND
Endrin Ketone	53494-70-5	BLK	ND ug/L	0.020	ND
gamma-BHC	58-89-9	BLK	ND ug/L	0.020	ND
gamma-Chlordane	5103-74-2	BLK	ND ug/L	0.020	ND
Heptachlor	76-44-8	BLK	ND ug/L	0.020	ND
Heptachlor Epoxide	1024-57-3	BLK	ND ug/L	0.020	ND
Methoxychlor	72-43-5	BLK	ND ug/L	0.020	ND
Toxaphene	8001-35-2	BLK	ND ug/L	1.0	ND

### SURROGATES

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK 0.37	0.50	73.90	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK 0.3660	0.50	73.10	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK 0.32	0.50	63.30	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	BLK 0.29	0.50	57.60	30 - 123	

Lab Control Standard 3448569 (LCS) Created on 01/18/2022 2:31 PM For QC Batch 813623

### RESULTS

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	LCS 0.61	0.50	121	58 - 142	
4,4'-DDE	72-55-9	LCS 0.54	0.50	107	61 - 132	

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## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDT	50-29-3	LCS	0.36	0.50	71.50	58 - 140	
Aldrin	309-00-2	LCS	0.37	0.50	73.90	45 - 121	
alpha-Chlordane	5103-71-9	LCS	0.51	0.50	101	62 - 131	
alpha-HCH (alpha-BHC)	319-84-6	LCS	0.54	0.50	107	60 - 137	
beta-BHC	319-85-7	LCS	0.45	0.50	89.20	59 - 139	
delta-BHC	319-86-8	LCS	0.50	0.50	100	59 - 141	
Dieldrin	60-57-1	LCS	0.54	0.50	107	61 - 138	
Endosulfan I	959-98-8	LCS	0.50	0.50	100	53 - 128	
Endosulfan II	33213-65-9	LCS	0.52	0.50	103	57 - 142	
Endosulfan Sulfate	1031-07-8	LCS	0.53	0.50	106	36 - 148	
Endrin	72-20-8	LCS	0.48	0.50	96.30	58 - 143	
Endrin Aldehyde	7421-93-4	LCS	0.37	0.50	74.60	23 - 139	
Endrin Ketone	53494-70-5	LCS	0.52	0.50	105	51 - 139	
gamma-BHC	58-89-9	LCS	0.52	0.50	103	58 - 138	
gamma-Chlordane	5103-74-2	LCS	0.51	0.50	101	60 - 129	
Heptachlor	76-44-8	LCS	0.32	0.50	64.20	41 - 124	
Heptachlor Epoxide	1024-57-3	LCS	0.51	0.50	102	62 - 131	
Methoxychlor	72-43-5	LCS	0.48	0.50	96.10	56 - 140	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.3380	0.50	67.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.3390	0.50	67.80	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.32	0.50	63.60	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.30	0.50	60.10	30 - 123	

**Matrix Spike** 3448570 (MS) Aliquot from 3222512001 For QC Batch 813623

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3448571 (MSD) Aliquot from 3222512001 For QC Batch 813623

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	MS	0.50	0.47	106	58 - 142	
4,4'-DDD	72-54-8	MSD	0.55	0.48	116	58 - 142	RPD 9.37 (Max-19)
4,4'-DDE	72-55-9	MS	0.42	0.47	88.30	61 - 132	
4,4'-DDE	72-55-9	MSD	0.45	0.48	95	61 - 132	RPD 8.18 (Max-19)
4,4'-DDT	50-29-3	MS	0.25	0.47	52.80	58 - 140	
4,4'-DDT	50-29-3	MSD	0.30	0.48	63.90	58 - 140	RPD 19.90 (Max-21)
Aldrin	309-00-2	MS	0.27	0.47	56.60	45 - 121	
Aldrin	309-00-2	MSD	0.25	0.48	52.70	45 - 121	RPD 6.31 (Max-31)
alpha-Chlordane	5103-71-9	MS	0.40	0.47	85.80	62 - 131	
alpha-Chlordane	5103-71-9	MSD	0.43	0.48	90.70	62 - 131	RPD 6.58 (Max-23)
alpha-HCH (alpha-BHC)	319-84-6	MS	0.44	0.47	93.20	60 - 137	
alpha-HCH (alpha-BHC)	319-84-6	MSD	0.47	0.48	99.50	60 - 137	RPD 7.42 (Max-31)

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## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers	
beta-BHC	319-85-7	MS	0.37	0.47	78	59 - 139		
beta-BHC	319-85-7	MSD	0.39	0.48	82.70	59 - 139	RPD	<u>6.82</u> (Max-30)
delta-BHC	319-86-8	MS	0.41	0.47	86.90	59 - 141		
delta-BHC	319-86-8	MSD	0.43	0.48	90.50	59 - 141	RPD	<u>5.02</u> (Max-31)
Dieldrin	60-57-1	MS	0.43	0.47	91.50	61 - 138		
Dieldrin	60-57-1	MSD	0.46	0.48	97.20	61 - 138	RPD	<u>6.90</u> (Max-23)
Endosulfan I	959-98-8	MS	0.40	0.47	85.30	53 - 128		
Endosulfan I	959-98-8	MSD	0.43	0.48	90.50	53 - 128	RPD	<u>6.83</u> (Max-29)
Endosulfan II	33213-65-9	MS	0.42	0.47	88.50	57 - 142		
Endosulfan II	33213-65-9	MSD	0.45	0.48	93.90	57 - 142	RPD	<u>6.89</u> (Max-23)
Endosulfan Sulfate	1031-07-8	MS	0.43	0.47	90.50	36 - 148		
Endosulfan Sulfate	1031-07-8	MSD	0.46	0.48	95.90	36 - 148	RPD	<u>6.70</u> (Max-25)
Endrin	72-20-8	MS	0.38	0.47	81.40	58 - 143		
Endrin	72-20-8	MSD	0.41	0.48	85.90	58 - 143	RPD	<u>6.27</u> (Max-28)
Endrin Aldehyde	7421-93-4	MS	0.31	0.47	65.90	23 - 139		
Endrin Aldehyde	7421-93-4	MSD	0.38	0.48	79.30	23 - 139	RPD	<u>19.40</u> (Max-21)
Endrin Ketone	53494-70-5	MS	0.41	0.47	86.90	51 - 139		
Endrin Ketone	53494-70-5	MSD	0.45	0.48	95.20	51 - 139	RPD	<u>10.10</u> (Max-20)
gamma-BHC	58-89-9	MS	0.42	0.47	88.70	58 - 138		
gamma-BHC	58-89-9	MSD	0.45	0.48	94.60	58 - 138	RPD	<u>7.35</u> (Max-30)
gamma-Chlordane	5103-74-2	MS	0.41	0.47	86.10	60 - 129		
gamma-Chlordane	5103-74-2	MSD	0.43	0.48	90.60	60 - 129	RPD	<u>6.08</u> (Max-23)
Heptachlor	76-44-8	MS	0.24	0.47	49.90	41 - 124		
Heptachlor	76-44-8	MSD	0.23	0.48	47.90	41 - 124	RPD	<u>3.23</u> (Max-28)
Heptachlor Epoxide	1024-57-3	MS	0.41	0.47	87.40	62 - 131		
Heptachlor Epoxide	1024-57-3	MSD	0.44	0.48	92.20	62 - 131	RPD	<u>6.27</u> (Max-27)
Methoxychlor	72-43-5	MS	0.37	0.47	78.60	56 - 140		
Methoxychlor	72-43-5	MSD	0.43	0.48	90.70	56 - 140	RPD	<u>15.20</u> (Max-21)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers	
Decachlorobiphenyl	2051-24-3	MS	0.1840	0.4720	39.10	30 - 140		
Decachlorobiphenyl	2051-24-3	MSD	0.2530	0.4760	53.10	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MS	0.1870	0.4720	39.70	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MSD	0.26	0.4760	54.50	30 - 140		
Tetrachloro-m-xylene	877-09-8	MS	0.24	0.47	51.30	30 - 123		
Tetrachloro-m-xylene	877-09-8	MSD	0.27	0.48	56.80	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.47	50.20	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MSD	0.27	0.48	56.20	30 - 123		

## Semi-Volatiles - GC SW846 8082A

### QC Batch

QC Batch	813625	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8082A
Tech.	AJW		

## Method Blank

3448577 (MB)

Created on 01/18/2022 2:39 PM

For QC Batch 813625

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Workorder 3222512

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	ug/L	0.50	ND
Aroclor-1221	11104-28-2	BLK	ND	ug/L	0.50	ND
Aroclor-1232	11141-16-5	BLK	ND	ug/L	0.50	ND
Aroclor-1242	53469-21-9	BLK	ND	ug/L	0.50	ND
Aroclor-1248	12672-29-6	BLK	ND	ug/L	0.50	ND
Aroclor-1254	11097-69-1	BLK	ND	ug/L	0.50	ND
Aroclor-1260	11096-82-5	BLK	ND	ug/L	0.50	ND
Aroclor-1262	37324-23-5	BLK	ND	ug/L	0.50	ND
Aroclor-1268	11100-14-4	BLK	ND	ug/L	0.50	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.33	0.50	66.30	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK	0.33	0.50	65.50	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.33	0.50	65.60	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	BLK	0.30	0.50	59.20	30 - 133	

**Lab Control Standard** 3448578 (LCS) Created on 01/18/2022 2:39 PM For QC Batch 813625

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	5	5	99.10	43 - 132	
Aroclor-1260	11096-82-5	LCS	4.90	5	97.10	43 - 132	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.31	0.50	61.50	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.31	0.50	62.40	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.34	0.50	68.70	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.32	0.50	63.60	30 - 133	

**Matrix Spike** 3448579 (MS) Aliquot from 3222512001 For QC Batch 813625

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3448580 (MSD) Aliquot from 3222512001 For QC Batch 813625

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	3.90	4.90	79.80	43 - 132	
Aroclor-1016	12674-11-2	MSD	2.70	4.80	56.70	43 - 132 RPD 35.60 (Max-40)	

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Workorder 3222512

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1260	11096-82-5	MS	4.70	4.90	97.70	43 - 132	
Aroclor-1260	11096-82-5	MSD	4.30	4.80	90.60	43 - 132 RPD 9.43 (Max-40)	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.21	0.49	44	30 - 140	
Decachlorobiphenyl	2051-24-3	MSD	0.20	0.48	42.20	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MS	0.21	0.49	43.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MSD	0.20	0.48	42	30 - 140	
Tetrachloro-m-xylene	877-09-8	MS	0.29	0.49	58.80	30 - 133	
Tetrachloro-m-xylene	877-09-8	MSD	0.18	0.48	38.50	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.49	50.40	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MSD	0.15	0.48	31.10	30 - 133	

AR 004349



Project 2022-Caneel Bay Resort USVI  
Workorder 3222512

## Metals Analytical SW846 6020A

### QC Batch

<u>QC Batch</u>	813236	<u>Prep Method</u>	SW846 3015
<u>Date</u>	01/16/2022 1:15 PM	<u>Analysis Method</u>	SW846 6020A
<u>Tech.</u>	AHI		

**Matrix Spike** 3447723 (MS) Aliquot from 3222369030 For QC Batch 813236

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3447724 (MSD) Aliquot from 3222369030 For QC Batch 813236

### RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers		
Arsenic, Total	7440-38-2	MS	0.24	0.2350	99.90	75 - 125			
Arsenic, Total	7440-38-2	MSD	0.23	0.2350	97.70	75 - 125	RPD	2	(Max-20)
Lead, Total	7439-92-1	MS	0.22	0.220072	101	75 - 125			
Lead, Total	7439-92-1	MSD	0.22	0.220072	97.80	75 - 125	RPD	2.99	(Max-20)

**Method Blank** 3447721 (MB) Created on 01/16/2022 8:39 AM For QC Batch 813236

### RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers			
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0033	ND			
Barium, Total	7440-39-3	BLK	ND	mg/L	0.0056	ND			
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0022	ND			

**Lab Control Standard** 3447722 (LCS) Created on 01/16/2022 8:39 AM For QC Batch 813236

### RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers		
Arsenic, Total	7440-38-2	LCS	0.21	0.22	95.90	80 - 120			
Barium, Total	7440-39-3	LCS	2.30	2.20	102	80 - 120			
Lead, Total	7439-92-1	LCS	0.22	0.22	99	80 - 120			

**Matrix Spike** 3447725 (MS) Aliquot from 3222512001 For QC Batch 813236

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3447726 (MSD) Aliquot from 3222512001 For QC Batch 813236

AR 004350



RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers		
Arsenic, Total	7440-38-2	MS	0.23	0.2223	101	75 - 125			
Arsenic, Total	7440-38-2	MSD	0.21	0.2223	94.90	75 - 125	RPD	6.30	(Max-20)
Barium, Total	7440-39-3	MS	2.80	2.60	108	75 - 125			
Barium, Total	7440-39-3	MSD	2.70	2.60	102	75 - 125	RPD	5.30	(Max-20)
Lead, Total	7439-92-1	MS	0.24	0.220170	106	75 - 125			
Lead, Total	7439-92-1	MSD	0.22	0.220170	101	75 - 125	RPD	4.67	(Max-20)



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REQUEST FOR ANALYSIS  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.



COC # 3222512  
ALS Q

Client Name: VHB		Container Type: C		AN		P		Receipt Information: (completed by Receiving Lab)	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size: 40mL		IL		125mL		W.O. Temp: 0° Therm ID: 575	
Contact: Ben Deede		Preservative: HCL		NA		HNO3		Courier/Tracking #: 3222512	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED							
Project Name#: Caneel Bay USVI		Purchase Order #:							
Bill To: VHB, Montpelier, VT		Project Comments:							
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.									
Date Required: <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.									
Email? <input checked="" type="checkbox"/> -Y bdeede@vhb.com, rkay@vhb.com									
Fax? <input type="checkbox"/> -Y No.:									
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy		Time hh:mm		Enter Number of Containers Per Sample or Field Results Below.			
1 Dug well 2		1/13/22		11:40		VOC 8260P			
2 Dug well 2 MS		1/13/22		11:40		AST: C6H6			
3 Dug well 2 MSD		1/13/22		11:40		AST: C6H6			
4 Trip Blank		-		-		AST: C6H6			
5						AST: C6H6			
6						AST: C6H6			
7						AST: C6H6			
8						AST: C6H6			
9						AST: C6H6			
10						AST: C6H6			
SAMPLER COMMENTS: Ben Deede (BND), Ben Bliss (BRB)									
Relinquished By / Company Name		Date		Time		Received By / Company Name		Date	
1 Ben Bliss / VHB		1/14/22		1006		2 Fed Ex		1/15/22	
3 Fed Ex						4 SMC ALS		1/15/22	
5						6			
7						8			
9						10			
SAMPLER COMMENTS: Ben Deede (BND), Ben Bliss (BRB)									
Data Deliverables		Standard <input checked="" type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD <input type="checkbox"/>		Special Processing <input type="checkbox"/> USACE <input type="checkbox"/> Navy <input type="checkbox"/>		State Samples Collected In <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>			
Reportable to PADEP? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		PWSID #		Sample Disposal Lab <input checked="" type="checkbox"/> Special <input type="checkbox"/>		EDDS: Formal Type-Excess, E&J, POF			

ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057

Rev 11/18





**Sender's address:**

VHB, Inc.  
100 State St, Suite 600,  
Montpelier, VT 05602

**Receiver's address:**

ALS Environmental  
301 Fulling Mill Rd  
Middletown, PA 17057

Re: Contents in the package

To whomever it may concern,

VHB is an engineering consulting firm that is conducting research on the behalf of National Park Service (NPS) at Caneel Bay Resort at the Virgin Islands National Park, St. John, US Virgin Islands. The project involves collecting groundwater samples at the resort that are being shipped to a laboratory in Middletown, Pennsylvania.

The package contains groundwater samples enclosed in tightly sealed glass/plastic bottles. The package also contains bagged ice to maintain the temperature of the samples.

These groundwater samples will be sent to the laboratory for chemical analysis to determine the concentration of contaminants in the groundwater.

**The samples must arrive at the laboratory within 1 week of sampling or the data will be compromised.**

If you have further questions, please contact the VHB Project Manager, Rhonda Kay, PE at (802) 778-1277 or rkay@vhb.com. Thank you for your cooperation.

Sincerely,

VHB

Rhonda Kay  
Senior Engineer

**Engineers | Scientists | Planners | Designers**

100 State Street, Suite 600, Montpelier, Vermont 05602

AR 802.229.3600 F 802.229.5876 www.vhb.com

## SDG 3222517 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
MW-2-06	01/13/2022	8260D 8270D 8082A	Primary
MW-2-07	01/13/2022	8260D 8270D 8082A	Primary
MW-2-09	01/13/2022	8260D 8270D 8082A	Primary
Dug Well 1	01/13/2022	8260D 8270D 8082A	Primary

#### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3222517 listed the sample dates as 01/13/2022. According to the COCs, the temperature of the cooler at receipt was 3°C and in acceptable condition. No qualification on sample results is warranted based on holding times requirements.

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were completed for the SDG.

#### II. Initial Calibration

The initial calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### III. Continuing Calibration

The continuing calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### **IV. Blanks**

Five (3448611MB, 3449667MB, 3448568MB, 3448577MB, and 3447721MB) were analyzed for the samples in SDG 3222517 using 8260D, 8270D, 8081B, 8082A, and 6020A. The method blanks did not have detections for any analytes; therefore, no qualification of the data is necessary.

#### **V. Surrogate Percent Recovery Compounds**

Some reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3222517 did not meet QC criteria: terphenyl-d14, decachlorobiphenyl., and decachlorobiphenyl; therefore, the affected samples are qualified J;SUR.

#### **VI. Matrix Spikes/ Matrix Spike Duplicates**

The MS/MSD was analyzed for various VOCs to identify the interaction of the sample matrix. EPA 8260D was completed using a matrix that is not site derived and therefore cannot evaluate precision; sample 3222512001 is qualified with J;MS and J;MSD (U;MS and U;MSD if result is ND). Chloroethane exceed the QC limits and is qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed using method 8270D and sample MW-2-09. The percent recoveries were within QC limits expect for. The affected sample is therefore qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed using method 8081B and 8082A with matrix that is site derived, but from another SDG; therefore, no qualification of the data is necessary. 4,4'-DDT exceeded QC limits and is therefore qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed using method 6020A with matrix that is not site derived and therefore cannot evaluate precision; sample 3222369030 is qualified with J;MS and J;MSD (U;MS and U;MSD if result is ND).

#### **VII. Duplicate Analysis MSD**

All relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

#### **VIII. Laboratory Control Sample/ Laboratory Control Sample Duplicates**

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples were analyzed in SDG 3222517. Percent recoveries were within acceptable

QC limits except for terphenyl-d14; therefore, the affected samples; therefore, are qualified J;LCS or U;LCS if result is ND.

**IX. Regional Quality Assurance and Quality Control**

There were no designated field duplicates in SDG 3222517.

**X. Completeness**

Prescribed field sampling of SDG 3222517 was completed according to the sampling design.

Laboratory analysis of SDG 3222517 was completed according to the COC and has a completeness score of 100%.

**XI. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XII. Internal Standards**

Internal standard area counts for the samples were within the upper and lower quality control limits. No assessment of the data is necessary based on acceptable internal standard area counts.

**XIII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. No discrepancies were identified.

**XIV. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were reported in the SDG data package.

**XV. System Performance**

A review of instrument quality control performance did not reveal issues in the calibrations, tuning and blanks submitted with the batch data package.

**XVI. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

## Sample Delivery Group 3222517 – Data Review

Multiple “J” flags were assigned; however, no data was rejected. Completeness goals were met.





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | [www.alsglobal.com](http://www.alsglobal.com)

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

**VHB - Vermont**

Project 2022-Caneel Bay Resort, Virgin

Workorder 3222517

Report ID 145070 on 1/25/2022

## Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jan 15, 2022.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.  
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ben Deede - VHB

Rhonda Kay - VHB - Vermont

*Sarah Leung*

**Sarah Leung**

(ALS Digital Signature)

Project Coordinator

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

AR 004358



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3222517001	MW-2-06	Water	01/13/2022 12:40 PM	01/15/2022 9:09 AM	CBC	Collected By Client
3222517002	MW-2-07	Water	01/13/2022 12:35 PM	01/15/2022 9:09 AM	CBC	Collected By Client
3222517003	MW-2-09	Water	01/13/2022 1:35 PM	01/15/2022 9:09 AM	CBC	Collected By Client
3222517004	Dug Well 1	Water	01/13/2022 2:40 PM	01/15/2022 9:09 AM	CBC	Collected By Client

## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits



Project Notations

8270 PAH testing was added per the request of Rhonda Key. EMP 1/20/22

Sample Notations

Lab ID Sample ID

Result Notations

Notation #	
1	The surrogate Decachlorobiphenyl. for method SW846 8082A was outside of control limits. The % Recovery was reported as 29.5 and the control limits were 30 to 140. This result was reported at a dilution of 1.
2	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits in the batch laboratory control sample. The % Recovery was reported as 32.2 and the control limits were 41 to 145. This result was reported at a dilution of 1.
3	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 33.5 and the control limits were 41 to 145. This result was reported at a dilution of 1.
4	The surrogate Decachlorobiphenyl for method SW846 8082A was outside of control limits. The % Recovery was reported as 26.5 and the control limits were 30 to 140. This result was reported at a dilution of 1.
5	The surrogate Decachlorobiphenyl. for method SW846 8082A was outside of control limits. The % Recovery was reported as 25.6 and the control limits were 30 to 140. This result was reported at a dilution of 1.
6	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 28.9 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits in the matrix spike associated with this sample. The % Recovery was reported as 19.1 and the control limits were 41 to 145. This result was reported at a dilution of 1.
8	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits in the matrix spike duplicate associated with this sample. The % Recovery was reported as 25.9 and the control limits were 41 to 145. This result was reported at a dilution of 1.
9	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 21.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID MW-2-06  
Lab Sample ID 3222517001

Collected 01/13/2022 12:40 PM  
Lab Receipt 01/15/2022 9:09 AM

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A  
Batch N/A  
Date N/A

Container 3222517001-A(Hydrochloric Acid)  
Aliquot 5 mL  
Tech. N/A

### Analysis

Method SW846 8260D  
Batch 813657  
Date 01/19/2022 2:56 PM

Fraction  
Dilution 1  
Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	3.8J	ug/L	10.0	3.1	C,J
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	ND	ug/L	1.0	0.39	C,ND
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;M
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

AR 004362

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1/25/2022 1:38 PM

KAK

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Client Sample ID	MW-2-06	Collected	01/13/2022 12:40 PM
Lab Sample ID	3222517001	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110 %	62 - 133	
4-Bromofluorobenzene	460-00-4	100 %	79 - 114	
Dibromofluoromethane	1868-53-7	102 %	78 - 116	
Toluene-d8	2037-26-5	105 %	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	3222517001-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 3:38 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

AR 004363



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID **MW-2-06**  
Lab Sample ID **3222517001**

Collected **01/13/2022 12:40 PM**  
Lab Receipt **01/15/2022 9:09 AM**

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	72.60 %	24 - 116	
Nitrobenzene-d5	4165-60-0	74.70 %	32 - 125	
Terphenyl-d14	98904-43-9	33.50 %	41 - 145	J;LCS J;M J;SUR

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method SW846 3511 Container 3222517001-D(Unpreserved)  
Batch 813625 Aliquot 100 mL  
Date 01/18/2022 4:50 PM Tech. AJW

##### Analysis

Method SW846 8082A Fraction Aroclor  
Batch 813717 Dilution 1  
Date 01/19/2022 3:09 PM Analyst EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.50	0.17	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.50	0.28	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.50	0.18	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.50	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.50	0.14	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.50	0.070	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.50	0.21	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.50	0.14	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.50	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	30.80 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	29.50 %	30 - 140	J;SUR
Tetrachloro-m-xylene	877-09-8	55.60 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	51.80 %	30 - 133	

AR 004364

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID **MW-2-07**  
Lab Sample ID **3222517002**

Collected **01/13/2022 12:35 PM**  
Lab Receipt **01/15/2022 9:09 AM**

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A Container 3222517002-A(Hydrochloric Acid)  
Batch N/A Aliquot 5 mL  
Date N/A Tech. N/A

### Analysis

Method SW846 8260D Fraction  
Batch 813657 Dilution 1  
Date 01/19/2022 3:19 PM Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	ND	ug/L	10.0	3.1	C,ND
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	0.45J	ug/L	1.0	0.39	C,J
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;MS
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

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1/25/2022 1:38 PM

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Client Sample ID	<b>MW-2-07</b>	Collected	<b>01/13/2022 12:35 PM</b>
Lab Sample ID	<b>3222517002</b>	Lab Receipt	<b>01/15/2022 9:09 AM</b>

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111 %	62 - 133	
4-Bromofluorobenzene	460-00-4	101 %	79 - 114	
Dibromofluoromethane	1868-53-7	103 %	78 - 116	
Toluene-d8	2037-26-5	103 %	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	3222517002-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 3:13 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	1.0J	ug/L	6.0	1.0	C,J

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID **MW-2-07**  
Lab Sample ID **3222517002**

Collected **01/13/2022 12:35 PM**  
Lab Receipt **01/15/2022 9:09 AM**

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	75 %	24 - 116	
Nitrobenzene-d5	4165-60-0	82.10 %	32 - 125	
Terphenyl-d14	98904-43-9	28.90 %	41 - 145	J;LCS J;M J;SUR

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method SW846 3511 Container 3222517002-D(Unpreserved)  
Batch 813625 Aliquot 100 mL  
Date 01/18/2022 4:50 PM Tech. AJW

##### Analysis

Method SW846 8082A Fraction Aroclor  
Batch 813717 Dilution 1  
Date 01/19/2022 2:58 PM Analyst EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.50	0.17	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.50	0.28	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.50	0.18	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.50	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.50	0.14	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.50	0.070	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.50	0.21	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.50	0.14	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.50	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	26.50 %	30 - 140	J;SUR
Decachlorobiphenyl.	2051-24-3X	25.60 %	30 - 140	J;SUR
Tetrachloro-m-xylene	877-09-8	54.70 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	47.90 %	30 - 133	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID **MW-2-09**  
Lab Sample ID **3222517003**

Collected **01/13/2022 1:35 PM**  
Lab Receipt **01/15/2022 9:09 AM**

# **Volatiles - GC/MS**

## **SW846 8260D**

### Prep

Method N/A Container 3222517003-A(Hydrochloric Acid)  
Batch N/A Aliquot 5 mL  
Date N/A Tech. N/A

### Analysis

Method SW846 8260D Fraction  
Batch 813657 Dilution 1  
Date 01/19/2022 3:41 PM Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	3.2J	ug/L	10.0	3.1	C,J
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	ND	ug/L	1.0	0.39	C,ND
Carbon Disulfide	75-15-0	0.48J	ug/L	1.0	0.23	C,J
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U,M
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

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Client Sample ID	MW-2-09	Collected	01/13/2022 1:35 PM
Lab Sample ID	3222517003	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109 %	62 - 133	
4-Bromofluorobenzene	460-00-4	99.70 %	79 - 114	
Dibromofluoromethane	1868-53-7	101 %	78 - 116	
Toluene-d8	2037-26-5	104 %	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	3222517003-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 4:04 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

AR 004369



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID **MW-2-09**  
Lab Sample ID **3222517003**

Collected **01/13/2022 1:35 PM**  
Lab Receipt **01/15/2022 9:09 AM**

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	46.80 %	24 - 116	
Nitrobenzene-d5	4165-60-0	49.80 %	32 - 125	
Terphenyl-d14	98904-43-9	21.80 %	41 - 145	J;LCS J;M J;SUR

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method SW846 3511 Container 3222517003-D(Unpreserved)  
Batch 813625 Aliquot 100 mL  
Date 01/18/2022 4:50 PM Tech. AJW

##### Analysis

Method SW846 8082A Fraction Aroclor  
Batch 813717 Dilution 1  
Date 01/19/2022 3:21 PM Analyst EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.50	0.17	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.50	0.28	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.50	0.18	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.50	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.50	0.14	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.50	0.070	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.50	0.21	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.50	0.14	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.50	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	42.90 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	42.10 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	45.30 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	39.80 %	30 - 133	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID Dug Well 1  
Lab Sample ID 3222517004

Collected 01/13/2022 2:40 PM  
Lab Receipt 01/15/2022 9:09 AM

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A  
Batch N/A  
Date N/A

Container 3222517004-A(Hydrochloric Acid)  
Aliquot 5 mL  
Tech. N/A

### Analysis

Method SW846 8260D  
Batch 813657  
Date 01/19/2022 4:04 PM

Fraction  
Dilution 1  
Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	3.4J	ug/L	10.0	3.1	C,J
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	ND	ug/L	1.0	0.39	C,ND
Carbon Disulfide	75-15-0	0.92J	ug/L	1.0	0.23	C,J
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;MS
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

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Client Sample ID	Dug Well 1	Collected	01/13/2022 2:40 PM
Lab Sample ID	3222517004	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	ND	ug/L	1.0	0.33	C,ND
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 - 133	
4-Bromofluorobenzene	460-00-4	102%	79 - 114	
Dibromofluoromethane	1868-53-7	101%	78 - 116	
Toluene-d8	2037-26-5	105%	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	3222517004-F(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 5:20 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID	Dug Well 1	Collected	01/13/2022 2:40 PM
Lab Sample ID	3222517004	Lab Receipt	01/15/2022 9:09 AM

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	70.20 %	24 - 116	
Nitrobenzene-d5	4165-60-0	74.80 %	32 - 125	
Terphenyl-d14	98904-43-9	33.50 %	41 - 145	J;LCS J;M J;SUR

#### Semi-Volatiles - GC SW846 8081B

##### Prep

Method	SW846 3511	Container	3222517004-F(Unpreserved)
Batch	813623	Aliquot	112 mL
Date	01/18/2022 4:50 PM	Tech.	AJW

##### Analysis

Method	SW846 8081B	Fraction	Pest
Batch	813745	Dilution	1
Date	01/19/2022 12:51 PM	Analyst	KJH

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
4,4'-DDD	72-54-8	ND	ug/L	0.018	0.0064	C,ND
4,4'-DDE	72-55-9	ND	ug/L	0.018	0.0023	C,ND
4,4'-DDT	50-29-3	ND	ug/L	0.018	0.012	U;MS
Aldrin	309-00-2	ND	ug/L	0.018	0.0023	C,ND
alpha-Chlordane	5103-71-9	ND	ug/L	0.018	0.0071	C,ND
alpha-HCH (alpha-BHC)	319-84-6	ND	ug/L	0.018	0.0028	C,ND
beta-BHC	319-85-7	ND	ug/L	0.018	0.0054	C,ND
delta-BHC	319-86-8	ND	ug/L	0.018	0.0026	C,ND
Dieldrin	60-57-1	ND	ug/L	0.018	0.0042	C,ND
Endosulfan I	959-98-8	ND	ug/L	0.018	0.0051	C,ND
Endosulfan II	33213-65-9	ND	ug/L	0.018	0.011	C,ND
Endosulfan Sulfate	1031-07-8	ND	ug/L	0.018	0.0080	C,ND
Endrin	72-20-8	ND	ug/L	0.018	0.0054	C,ND
Endrin Aldehyde	7421-93-4	ND	ug/L	0.018	0.0069	C,ND
Endrin Ketone	53494-70-5	ND	ug/L	0.018	0.0090	C,ND
gamma-BHC	58-89-9	ND	ug/L	0.018	0.0043	C,ND
gamma-Chlordane	5103-74-2	ND	ug/L	0.018	0.0044	C,ND
Heptachlor	76-44-8	ND	ug/L	0.018	0.0053	C,ND
Heptachlor Epoxide	1024-57-3	ND	ug/L	0.018	0.0036	C,ND
Methoxychlor	72-43-5	ND	ug/L	0.018	0.012	C,ND
Toxaphene	8001-35-2	ND	ug/L	0.89	0.17	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	54.60 %	30 - 140	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

Client Sample ID	Dug Well 1	Collected	01/13/2022 2:40 PM
Lab Sample ID	3222517004	Lab Receipt	01/15/2022 9:09 AM

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl.	2051-24-3X	55.90 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	45.60 %	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	52.50 %	30 - 123	

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method	SW846 3511	Container	3222517004-D(Unpreserved)
Batch	813625	Aliquot	112 mL
Date	01/18/2022 4:50 PM	Tech.	AJW

##### Analysis

Method	SW846 8082A	Fraction	Aroclor
Batch	813717	Dilution	1
Date	01/19/2022 2:22 PM	Analyst	EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.45	0.15	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.45	0.25	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.45	0.16	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.45	0.098	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.45	0.13	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.45	0.063	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.45	0.19	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.45	0.13	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.45	0.17	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	46.20 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	45.90 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	51.30 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	44 %	30 - 133	

#### Metals Analytical SW846 6020A

##### Prep

Method	SW846 3015	Container	3222517004-H1(Nitric Acid)
Batch	813236	Aliquot	45 mL
Date	01/16/2022 1:15 PM	Tech.	AHI

##### Analysis

Method	SW846 6020A	Fraction	ICP_MS
Batch	813655	Dilution	5
Date	01/19/2022 4:38 PM	Analyst	MO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Arsenic, Total	7440-38-2	0.0062J	mg/L	0.017	0.0055	J;MS
Barium, Total	7440-39-3	0.31	mg/L	0.028	0.0095	J;MS
Lead, Total	7439-92-1	ND	mg/L	0.011	0.0037	U;MS

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Client Sample ID	Dug Well 1	Collected	01/13/2022 2:40 PM
Lab Sample ID	3222517004	Lab Receipt	01/15/2022 9:09 AM



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3222517001	MW-2-06	SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222517002	MW-2-07	SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222517003	MW-2-09	SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222517004	Dug Well 1	SW846 6020A	SW846 3015	
		SW846 8081B	SW846 3511	
		SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	



QUALITY CONTROL SAMPLES

Volatiles - GC/MS  
SW846 8260D

QC Batch

QC Batch813657

Prep MethodN/A

DateN/A

Analysis MethodSW846 8260D

TechN/A

Matrix Spike3448917 (MS)Aliquot from 3222512001For QC Batch 813657

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate3448918 (MSD)Aliquot from 3222512001For QC Batch 813657

RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers	
1,1,1-Trichloroethane	71-55-6	MS	22.10	20	110	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	21.90	20	109	66 - 130	RPD	0.85 (Max-20)
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.30	20	102	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	20.40	20	102	74 - 135	RPD	0.21 (Max-16)
1,1,2-Trichloroethane	79-00-5	MS	19.60	20	98.20	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	20.20	20	101	82 - 126	RPD	2.60 (Max-15)
1,1-Dichloroethane	75-34-3	MS	21.60	20	108	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	21	20	105	78 - 124	RPD	2.73 (Max-15)
1,1-Dichloroethene	75-35-4	MS	23.10	20	116	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	23	20	115	63 - 128	RPD	0.40 (Max-21)
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	20	91	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.90	20	99.40	61 - 126	RPD	8.88 (Max-36)
1,2,4-Trichlorobenzene	120-82-1	MS	18.30	20	91.60	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	19.80	20	98.90	67 - 123	RPD	7.63 (Max-22)
1,2-Dibromo-3-chloropropane	96-12-8	MS	17.70	20	88.30	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18.10	20	90.50	59 - 133	RPD	2.44 (Max-26)
1,2-Dibromoethane	106-93-4	MS	19.40	20	96.80	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19.80	20	98.80	80 - 124	RPD	2.06 (Max-19)
1,2-Dichlorobenzene	95-50-1	MS	20.10	20	100	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	20.80	20	104	82 - 118	RPD	3.42 (Max-15)
1,2-Dichloroethane	107-06-2	MS	21.10	20	106	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.90	20	105	70 - 133	RPD	0.90 (Max-19)
1,2-Dichloropropane	78-87-5	MS	21.20	20	106	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	21	20	105	81 - 127	RPD	1.03 (Max-15)
1,3-Dichlorobenzene	541-73-1	MS	19.80	20	98.80	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	20.70	20	103	81 - 118	RPD	4.44 (Max-16)
1,4-Dichlorobenzene	106-46-7	MS	19.80	20	99.10	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	20.20	20	101	81 - 116	RPD	2.15 (Max-15)
2-Butanone	78-93-3	MS	94.70	100	94.70	50 - 152		
2-Butanone	78-93-3	MSD	102	100	102	50 - 152	RPD	7.06 (Max-16)
2-Hexanone	591-78-6	MS	97.80	100	97.80	65 - 154		
2-Hexanone	591-78-6	MSD	98.50	100	98.50	65 - 154	RPD	0.75 (Max-17)
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	92.50	100	92.50	71 - 146		





Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	93.40	100	93.40	71 - 146	RPD	0.94	(Max-16)
Acetone	67-64-1	MS	91.70	105	86.70	40 - 151			
Acetone	67-64-1	MSD	96	105	91	40 - 151	RPD	4.55	(Max-40)
Benzene	71-43-2	MS	21.40	20	107	80 - 124			
Benzene	71-43-2	MSD	21.40	20	107	80 - 124	RPD	0.12	(Max-26)
Bromochloromethane	74-97-5	MS	20.70	20	103	73 - 117			
Bromochloromethane	74-97-5	MSD	20.30	20	101	73 - 117	RPD	1.98	(Max-19)
Bromodichloromethane	75-27-4	MS	20.40	20	102	79 - 126			
Bromodichloromethane	75-27-4	MSD	20.50	20	103	79 - 126	RPD	0.70	(Max-16)
Bromoform	75-25-2	MS	14.80	20	73.80	70 - 123			
Bromoform	75-25-2	MSD	15.60	20	78	70 - 123	RPD	5.64	(Max-16)
Bromomethane	74-83-9	MS	17.80	20	89.20	45 - 148			
Bromomethane	74-83-9	MSD	19.40	20	97.10	45 - 148	RPD	8.50	(Max-26)
Carbon Disulfide	75-15-0	MS	21.20	20	106	57 - 131			
Carbon Disulfide	75-15-0	MSD	21.20	20	106	57 - 131	RPD	0.11	(Max-28)
Carbon Tetrachloride	56-23-5	MS	19	20	95.20	62 - 132			
Carbon Tetrachloride	56-23-5	MSD	19.10	20	95.30	62 - 132	RPD	0.14	(Max-17)
Chlorobenzene	108-90-7	MS	20.30	20	101	85 - 117			
Chlorobenzene	108-90-7	MSD	20.60	20	103	85 - 117	RPD	1.79	(Max-15)
Chlorodibromomethane	124-48-1	MS	17.10	20	85.70	77 - 122			
Chlorodibromomethane	124-48-1	MSD	17.70	20	88.40	77 - 122	RPD	3.09	(Max-15)
Chloroethane	75-00-3	MS	28.90	20	145	51 - 142			
Chloroethane	75-00-3	MSD	27.40	20	137	51 - 142	RPD	5.42	(Max-24)
Chloroform	67-66-3	MS	21.30	20	106	78 - 122			
Chloroform	67-66-3	MSD	20.90	20	104	78 - 122	RPD	2.06	(Max-16)
Chloromethane	74-87-3	MS	17.30	20	86.70	38 - 156			
Chloromethane	74-87-3	MSD	17.70	20	88.30	38 - 156	RPD	1.84	(Max-27)
cis-1,2-Dichloroethene	156-59-2	MS	21.80	20	109	78 - 125			
cis-1,2-Dichloroethene	156-59-2	MSD	21.40	20	107	78 - 125	RPD	1.61	(Max-21)
cis-1,3-Dichloropropene	10061-01-5	MS	17.20	20	86.10	81 - 121			
cis-1,3-Dichloropropene	10061-01-5	MSD	17.10	20	85.40	81 - 121	RPD	0.80	(Max-16)
Cyclohexane	110-82-7	MS	22.60	20	113	66 - 130			
Cyclohexane	110-82-7	MSD	22.40	20	112	66 - 130	RPD	0.55	(Max-20)
Dichlorodifluoromethane	75-71-8	MS	18.50	20	92.70	17 - 166			
Dichlorodifluoromethane	75-71-8	MSD	19	20	95.10	17 - 166	RPD	2.61	(Max-24)
Ethylbenzene	100-41-4	MS	20.60	20	103	80 - 124			
Ethylbenzene	100-41-4	MSD	20.70	20	104	80 - 124	RPD	0.81	(Max-19)
Freon 113	76-13-1	MS	23.40	20	117	50 - 130			
Freon 113	76-13-1	MSD	24.40	20	122	50 - 130	RPD	3.90	(Max-26)
Isopropylbenzene	98-82-8	MS	21.50	20	107	73 - 129			
Isopropylbenzene	98-82-8	MSD	22.20	20	111	73 - 129	RPD	3.51	(Max-18)
Methyl acetate	79-20-9	MS	15	20	74.90	70 - 130			
Methyl acetate	79-20-9	MSD	15.60	20	78	70 - 130	RPD	4.11	(Max-18)
Methyl cyclohexane	108-87-2	MS	20.60	20	103	70 - 130			
Methyl cyclohexane	108-87-2	MSD	21.30	20	107	70 - 130	RPD	3.34	(Max-18)
Methyl t-Butyl Ether	1634-04-4	MS	20.50	20	102	69 - 115			
Methyl t-Butyl Ether	1634-04-4	MSD	20.80	20	104	69 - 115	RPD	1.47	(Max-20)
Methylene Chloride	75-09-2	MS	21.50	20	108	76 - 121			
Methylene Chloride	75-09-2	MSD	21.20	20	106	76 - 121	RPD	1.54	(Max-17)
mp-Xylene	108383/106423	MS	42.70	40	107	79 - 125			
mp-Xylene	108383/106423	MSD	43.20	40	108	79 - 125	RPD	1.11	(Max-21)
o-Xylene	95-47-6	MS	20.20	20	101	79 - 124			

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
o-Xylene	95-47-6	MSD	20.50	20	102	79 - 124	RPD	1.54	(Max-19)
Styrene	100-42-5	MS	21.60	20	108	79 - 123			
Styrene	100-42-5	MSD	21.90	20	109	79 - 123	RPD	1.56	(Max-16)
Tetrachloroethene	127-18-4	MS	19	20	95.10	72 - 124			
Tetrachloroethene	127-18-4	MSD	19.40	20	97.20	72 - 124	RPD	2.26	(Max-38)
Toluene	108-88-3	MS	20.70	20	103	80 - 125			
Toluene	108-88-3	MSD	20.80	20	104	80 - 125	RPD	0.35	(Max-20)
Total Xylenes	1330-20-7	MS	62.90	60	105	79 - 125			
Total Xylenes	1330-20-7	MSD	63.60	60	106	79 - 125	RPD	1.25	(Max-35)
trans-1,2-Dichloroethene	156-60-5	MS	21.50	20	108	71 - 122			
trans-1,2-Dichloroethene	156-60-5	MSD	21.60	20	108	71 - 122	RPD	0.41	(Max-22)
trans-1,3-Dichloropropene	10061-02-6	MS	18	20	90	78 - 126			
trans-1,3-Dichloropropene	10061-02-6	MSD	17.90	20	89.60	78 - 126	RPD	0.44	(Max-18)
Trichloroethene	79-01-6	MS	20.30	20	102	77 - 124			
Trichloroethene	79-01-6	MSD	20.40	20	102	77 - 124	RPD	0.28	(Max-18)
Trichlorofluoromethane	75-69-4	MS	24.30	20	121	38 - 123			
Trichlorofluoromethane	75-69-4	MSD	23	20	115	38 - 123	RPD	5.48	(Max-23)
Vinyl Chloride	75-01-4	MS	20.70	20	104	27 - 138			
Vinyl Chloride	75-01-4	MSD	19.90	20	99.50	27 - 138	RPD	4.13	(Max-40)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.70	30	102	62 - 133		
1,2-Dichloroethane-d4	17060-07-0	MSD	30.60	30	102	62 - 133		
4-Bromofluorobenzene	460-00-4	MS	28.70	30	95.80	79 - 114		
4-Bromofluorobenzene	460-00-4	MSD	29.80	30	99.20	79 - 114		
Dibromofluoromethane	1868-53-7	MS	31.80	30	106	78 - 116		
Dibromofluoromethane	1868-53-7	MSD	31.60	30	105	78 - 116		
Toluene-d8	2037-26-5	MS	30.40	30	101	76 - 127		
Toluene-d8	2037-26-5	MSD	30.70	30	102	76 - 127		

## Method Blank

3448611 (MB)

Created on 01/18/2022 6:02 PM

For QC Batch 813657

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.90	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.10	30	104	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.30	30	108	76 - 127	

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Project 2022-Caneel Bay Resort, Virgin  
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## Lab Control Standard

3448612 (LCS)

Created on 01/18/2022 6:02 PM

For QC Batch 813657

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.30	20	106	66 - 130	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.80	20	104	74 - 135	
1,1,2-Trichloroethane	79-00-5	LCS	20.90	20	104	82 - 126	
1,1-Dichloroethane	75-34-3	LCS	19.70	20	98.70	78 - 124	
1,1-Dichloroethene	75-35-4	LCS	21.80	20	109	63 - 128	
1,2,3-Trichlorobenzene	87-61-6	LCS	22	20	110	61 - 126	
1,2,4-Trichlorobenzene	120-82-1	LCS	21.60	20	108	67 - 123	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90	20	94.70	59 - 133	
1,2-Dibromoethane	106-93-4	LCS	20.80	20	104	80 - 124	
1,2-Dichlorobenzene	95-50-1	LCS	20.50	20	103	82 - 118	
1,2-Dichloroethane	107-06-2	LCS	20.10	20	101	70 - 133	
1,2-Dichloropropane	78-87-5	LCS	20.50	20	103	81 - 127	
1,3-Dichlorobenzene	541-73-1	LCS	20.10	20	101	81 - 118	
1,4-Dichlorobenzene	106-46-7	LCS	19.80	20	99.20	81 - 116	
2-Butanone	78-93-3	LCS	110	100	110	50 - 152	
2-Hexanone	591-78-6	LCS	111	100	111	65 - 154	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	98	100	98	71 - 146	
Acetone	67-64-1	LCS	137	100	137	40 - 151	
Benzene	71-43-2	LCS	20.40	20	102	80 - 124	
Bromochloromethane	74-97-5	LCS	21.10	20	105	73 - 117	
Bromodichloromethane	75-27-4	LCS	19.80	20	98.80	79 - 126	
Bromoform	75-25-2	LCS	17.60	20	88	70 - 123	
Bromomethane	74-83-9	LCS	21	20	105	45 - 148	
Carbon Disulfide	75-15-0	LCS	21	20	105	57 - 131	
Carbon Tetrachloride	56-23-5	LCS	19.30	20	96.60	62 - 132	
Chlorobenzene	108-90-7	LCS	20	20	99.80	85 - 117	
Chlorodibromomethane	124-48-1	LCS	19.20	20	95.80	77 - 122	
Chloroethane	75-00-3	LCS	21.60	20	108	51 - 142	
Chloroform	67-66-3	LCS	20.10	20	101	78 - 122	
Chloromethane	74-87-3	LCS	17.60	20	88	38 - 156	
cis-1,2-Dichloroethene	156-59-2	LCS	20.60	20	103	78 - 125	
cis-1,3-Dichloropropene	10061-01-5	LCS	18.30	20	91.70	81 - 121	
Cyclohexane	110-82-7	LCS	21.90	20	109	66 - 130	
Dichlorodifluoromethane	75-71-8	LCS	17.10	20	85.60	17 - 166	
Ethylbenzene	100-41-4	LCS	20.20	20	101	80 - 124	
Freon 113	76-13-1	LCS	23.30	20	116	50 - 130	
Isopropylbenzene	98-82-8	LCS	21.10	20	105	73 - 129	
Methyl acetate	79-20-9	LCS	22.60	20	113	70 - 130	
Methyl cyclohexane	108-87-2	LCS	21.90	20	109	70 - 130	
Methyl t-Butyl Ether	1634-04-4	LCS	21.20	20	106	69 - 115	
Methylene Chloride	75-09-2	LCS	20.60	20	103	76 - 121	
mp-Xylene	108383/106423	LCS	42.30	40	106	79 - 125	
o-Xylene	95-47-6	LCS	20.20	20	101	79 - 124	
Styrene	100-42-5	LCS	21.30	20	106	79 - 123	
Tetrachloroethene	127-18-4	LCS	20.30	20	102	72 - 124	
Toluene	108-88-3	LCS	20.50	20	103	80 - 125	
Total Xylenes	1330-20-7	LCS	62.50	60	104	79 - 125	

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Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
trans-1,2-Dichloroethene	156-60-5	LCS	20.20	20	101	71 - 122	
trans-1,3-Dichloropropene	10061-02-6	LCS	19.30	20	96.60	78 - 126	
Trichloroethene	79-01-6	LCS	19.70	20	98.50	77 - 124	
Trichlorofluoromethane	75-69-4	LCS	18.70	20	93.70	38 - 123	
Vinyl Chloride	75-01-4	LCS	17.50	20	87.40	27 - 138	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.70	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.10	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	LCS	31.40	30	105	76 - 127	

AR 004382





Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## Semi-Volatiles - GC/MS SW846 8270D

### QC Batch

QC Batch	814300	Prep Method	SW846 3510C
Date	01/20/2022 4:30 PM	Analysis Method	SW846 8270D
Tech.	J1H		

Method Blank 3449667 (MB) Created on 01/20/2022 2:37 PM For QC Batch 814300

### RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers
Acenaphthene	83-32-9	BLK	ND ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND ug/L	1.5	ND
Anthracene	120-12-7	BLK	ND ug/L	1.5	ND
Benzo(a)anthracene	56-55-3	BLK	ND ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND ug/L	1.5	ND
Chrysene	218-01-9	BLK	ND ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND ug/L	1.5	ND
Fluoranthene	206-44-0	BLK	ND ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND ug/L	1.5	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND ug/L	1.5	ND
Naphthalene	91-20-3	BLK	ND ug/L	1.5	ND
Phenanthrene	85-01-8	BLK	ND ug/L	1.5	ND
Pyrene	129-00-0	BLK	ND ug/L	1.5	ND

### SURROGATES

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	BLK 10	12.50	80.40	24 - 116	
Nitrobenzene-d5	4165-60-0	BLK 10.70	12.50	85.80	32 - 125	
Terphenyl-d14	98904-43-9	BLK 6.90	12.50	55.10	41 - 145	

Lab Control Standard 3449668 (LCS) Created on 01/20/2022 2:37 PM For QC Batch 814300

### RESULTS

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	LCS 11.30	12.50	90.30	36 - 130	
Acenaphthylene	208-96-8	LCS 11.80	12.50	94	39 - 130	
Anthracene	120-12-7	LCS 11.60	12.50	92.80	48 - 133	
Benzo(a)anthracene	56-55-3	LCS 12.10	12.50	96.70	51 - 127	
Benzo(a)pyrene	50-32-8	LCS 12.10	12.50	97.20	53 - 127	
Benzo(b)fluoranthene	205-99-2	LCS 12.50	12.50	100	53 - 131	
Benzo(g,h,i)perylene	191-24-2	LCS 13.20	12.50	106	54 - 131	
Benzo(k)fluoranthene	207-08-9	LCS 13	12.50	104	52 - 130	

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## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Chrysene	218-01-9	LCS	12.50	12.50	99.80	50 - 131	
Dibenzo(a,h)anthracene	53-70-3	LCS	13.30	12.50	107	56 - 130	
Fluoranthene	206-44-0	LCS	11.90	12.50	94.90	49 - 132	
Fluorene	86-73-7	LCS	10.90	12.50	87.50	42 - 131	
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	13.10	12.50	105	55 - 126	
Naphthalene	91-20-3	LCS	9.70	12.50	77.80	21 - 123	
Phenanthrene	85-01-8	LCS	11.90	12.50	95	46 - 131	
Pyrene	129-00-0	LCS	12.80	12.50	103	48 - 134	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	LCS	6.20	12.50	49.20	24 - 116	
Nitrobenzene-d5	4165-60-0	LCS	6.60	12.50	52.60	32 - 125	
Terphenyl-d14	98904-43-9	LCS	4	12.50	32.20	41 - 145	

**Matrix Spike** 3449669 (MS) Aliquot from 3222517003 For QC Batch 814300

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3449670 (MSD) Aliquot from 3222517003 For QC Batch 814300

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	MS	39.50	50	79.10	36 - 130	
Acenaphthene	83-32-9	MSD	42.10	50	84.20	36 - 130 RPD 6.23 (Max-30)	
Acenaphthylene	208-96-8	MS	41.50	50	82.90	39 - 130	
Acenaphthylene	208-96-8	MSD	44.50	50	89	39 - 130 RPD 7.08 (Max-30)	
Anthracene	120-12-7	MS	37.80	50	75.60	48 - 133	
Anthracene	120-12-7	MSD	39.60	50	79.30	48 - 133 RPD 4.80 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	36.80	50	73.70	51 - 127	
Benzo(a)anthracene	56-55-3	MSD	39.60	50	79.10	51 - 127 RPD 7.16 (Max-30)	
Benzo(a)pyrene	50-32-8	MS	36.80	50	73.60	53 - 127	
Benzo(a)pyrene	50-32-8	MSD	40.10	50	80.20	53 - 127 RPD 8.52 (Max-30)	
Benzo(b)fluoranthene	205-99-2	MS	38.50	50	76.90	53 - 131	
Benzo(b)fluoranthene	205-99-2	MSD	41.20	50	82.40	53 - 131 RPD 6.81 (Max-30)	
Benzo(g,h,i)perylene	191-24-2	MS	38.70	50	77.50	54 - 131	
Benzo(g,h,i)perylene	191-24-2	MSD	41.90	50	83.80	54 - 131 RPD 7.77 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	39.20	50	78.50	52 - 130	
Benzo(k)fluoranthene	207-08-9	MSD	42.30	50	84.70	52 - 130 RPD 7.65 (Max-30)	
Chrysene	218-01-9	MS	38.30	50	76.60	50 - 131	
Chrysene	218-01-9	MSD	41.30	50	82.60	50 - 131 RPD 7.54 (Max-30)	
Dibenzo(a,h)anthracene	53-70-3	MS	40	50	80.10	56 - 130	
Dibenzo(a,h)anthracene	53-70-3	MSD	42.40	50	84.70	56 - 130 RPD 5.67 (Max-30)	
Fluoranthene	206-44-0	MS	38.60	50	77.20	49 - 132	
Fluoranthene	206-44-0	MSD	40.90	50	81.90	49 - 132 RPD 5.89 (Max-30)	
Fluorene	86-73-7	MS	38	50	76	42 - 131	

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 Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
Fluorene	86-73-7	MSD	39.90	50	79.80	42 - 131	RPD	4.82	(Max-30)
Indeno(1,2,3-cd)pyrene	193-39-5	MS	39	50	78.10	55 - 126			
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	42	50	84	55 - 126	RPD	7.30	(Max-30)
Naphthalene	91-20-3	MS	35.50	50	71	21 - 123			
Naphthalene	91-20-3	MSD	38.80	50	77.60	21 - 123	RPD	8.89	(Max-30)
Phenanthrene	85-01-8	MS	39.10	50	78.20	46 - 131			
Phenanthrene	85-01-8	MSD	41.80	50	83.60	46 - 131	RPD	6.57	(Max-30)
Pyrene	129-00-0	MS	41.40	50	82.80	48 - 134			
Pyrene	129-00-0	MSD	44.30	50	88.60	48 - 134	RPD	6.69	(Max-30)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
2-Fluorobiphenyl	321-60-8	MS	23.20	50	46.50	24 - 116		
2-Fluorobiphenyl	321-60-8	MSD	37.70	50	75.30	24 - 116		
Nitrobenzene-d5	4165-60-0	MS	24.20	50	48.40	32 - 125		
Nitrobenzene-d5	4165-60-0	MSD	42.30	50	84.60	32 - 125		
Terphenyl-d14	98904-43-9	MS	9.50	50	19.10	41 - 145		
Terphenyl-d14	98904-43-9	MSD	13	50	25.90	41 - 145		

AR 004385



Semi-Volatiles - GC  
SW846 8081B

QC Batch

QC Batch	813623	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8081B
Tech.	AJW		

Matrix Spike 3448570 (MS) Aliquot from 3222512001 For QC Batch 813623

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3448571 (MSD) Aliquot from 3222512001 For QC Batch 813623

RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	MS	0.50	0.47	106	58 - 142	
4,4'-DDD	72-54-8	MSD	0.55	0.48	116	58 - 142	RPD 9.37 (Max-19)
4,4'-DDE	72-55-9	MS	0.42	0.47	88.30	61 - 132	
4,4'-DDE	72-55-9	MSD	0.45	0.48	95	61 - 132	RPD 8.18 (Max-19)
4,4'-DDT	50-29-3	MS	0.25	0.47	52.80	58 - 140	
4,4'-DDT	50-29-3	MSD	0.30	0.48	63.90	58 - 140	RPD 19.90 (Max-21)
Aldrin	309-00-2	MS	0.27	0.47	56.60	45 - 121	
Aldrin	309-00-2	MSD	0.25	0.48	52.70	45 - 121	RPD 6.31 (Max-31)
alpha-Chlordane	5103-71-9	MS	0.40	0.47	85.80	62 - 131	
alpha-Chlordane	5103-71-9	MSD	0.43	0.48	90.70	62 - 131	RPD 6.58 (Max-23)
alpha-HCH (alpha-BHC)	319-84-6	MS	0.44	0.47	93.20	60 - 137	
alpha-HCH (alpha-BHC)	319-84-6	MSD	0.47	0.48	99.50	60 - 137	RPD 7.42 (Max-31)
beta-BHC	319-85-7	MS	0.37	0.47	78	59 - 139	
beta-BHC	319-85-7	MSD	0.39	0.48	82.70	59 - 139	RPD 6.82 (Max-30)
delta-BHC	319-86-8	MS	0.41	0.47	86.90	59 - 141	
delta-BHC	319-86-8	MSD	0.43	0.48	90.50	59 - 141	RPD 5.02 (Max-31)
Dieldrin	60-57-1	MS	0.43	0.47	91.50	61 - 138	
Dieldrin	60-57-1	MSD	0.46	0.48	97.20	61 - 138	RPD 6.90 (Max-23)
Endosulfan I	959-98-8	MS	0.40	0.47	85.30	53 - 128	
Endosulfan I	959-98-8	MSD	0.43	0.48	90.50	53 - 128	RPD 6.83 (Max-29)
Endosulfan II	33213-65-9	MS	0.42	0.47	88.50	57 - 142	
Endosulfan II	33213-65-9	MSD	0.45	0.48	93.90	57 - 142	RPD 6.89 (Max-23)
Endosulfan Sulfate	1031-07-8	MS	0.43	0.47	90.50	36 - 148	
Endosulfan Sulfate	1031-07-8	MSD	0.46	0.48	95.90	36 - 148	RPD 6.70 (Max-25)
Endrin	72-20-8	MS	0.38	0.47	81.40	58 - 143	
Endrin	72-20-8	MSD	0.41	0.48	85.90	58 - 143	RPD 6.27 (Max-28)
Endrin Aldehyde	7421-93-4	MS	0.31	0.47	65.90	23 - 139	
Endrin Aldehyde	7421-93-4	MSD	0.38	0.48	79.30	23 - 139	RPD 19.40 (Max-21)
Endrin Ketone	53494-70-5	MS	0.41	0.47	86.90	51 - 139	
Endrin Ketone	53494-70-5	MSD	0.45	0.48	95.20	51 - 139	RPD 10.10 (Max-20)
gamma-BHC	58-89-9	MS	0.42	0.47	88.70	58 - 138	
gamma-BHC	58-89-9	MSD	0.45	0.48	94.60	58 - 138	RPD 7.35 (Max-30)
gamma-Chlordane	5103-74-2	MS	0.41	0.47	86.10	60 - 129	
gamma-Chlordane	5103-74-2	MSD	0.43	0.48	90.60	60 - 129	RPD 6.08 (Max-23)
Heptachlor	76-44-8	MS	0.24	0.47	49.90	41 - 124	

AR 004386



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
Heptachlor	76-44-8	MSD	0.23	0.48	47.90	41 - 124	RPD	3.23 (Max-28)	
Heptachlor Epoxide	1024-57-3	MS	0.41	0.47	87.40	62 - 131			
Heptachlor Epoxide	1024-57-3	MSD	0.44	0.48	92.20	62 - 131	RPD	6.27 (Max-27)	
Methoxychlor	72-43-5	MS	0.37	0.47	78.60	56 - 140			
Methoxychlor	72-43-5	MSD	0.43	0.48	90.70	56 - 140	RPD	15.20 (Max-21)	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.1840	0.4720	39.10	30 - 140		
Decachlorobiphenyl	2051-24-3	MSD	0.2530	0.4760	53.10	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MS	0.1870	0.4720	39.70	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MSD	0.26	0.4760	54.50	30 - 140		
Tetrachloro-m-xylene	877-09-8	MS	0.24	0.47	51.30	30 - 123		
Tetrachloro-m-xylene	877-09-8	MSD	0.27	0.48	56.80	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.47	50.20	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MSD	0.27	0.48	56.20	30 - 123		

## Method Blank

3448568 (MB)

Created on 01/18/2022 2:31 PM

For QC Batch 813623

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4,4'-DDD	72-54-8	BLK	ND	ug/L	0.020	ND
4,4'-DDE	72-55-9	BLK	ND	ug/L	0.020	ND
4,4'-DDT	50-29-3	BLK	ND	ug/L	0.020	ND
Aldrin	309-00-2	BLK	ND	ug/L	0.020	ND
alpha-Chlordane	5103-71-9	BLK	ND	ug/L	0.020	ND
alpha-HCH (alpha-BHC)	319-84-6	BLK	ND	ug/L	0.020	ND
beta-BHC	319-85-7	BLK	ND	ug/L	0.020	ND
delta-BHC	319-86-8	BLK	ND	ug/L	0.020	ND
Dieldrin	60-57-1	BLK	ND	ug/L	0.020	ND
Endosulfan I	959-98-8	BLK	ND	ug/L	0.020	ND
Endosulfan II	33213-65-9	BLK	ND	ug/L	0.020	ND
Endosulfan Sulfate	1031-07-8	BLK	ND	ug/L	0.020	ND
Endrin	72-20-8	BLK	ND	ug/L	0.020	ND
Endrin Aldehyde	7421-93-4	BLK	ND	ug/L	0.020	ND
Endrin Ketone	53494-70-5	BLK	ND	ug/L	0.020	ND
gamma-BHC	58-89-9	BLK	ND	ug/L	0.020	ND
gamma-Chlordane	5103-74-2	BLK	ND	ug/L	0.020	ND
Heptachlor	76-44-8	BLK	ND	ug/L	0.020	ND
Heptachlor Epoxide	1024-57-3	BLK	ND	ug/L	0.020	ND
Methoxychlor	72-43-5	BLK	ND	ug/L	0.020	ND
Toxaphene	8001-35-2	BLK	ND	ug/L	1.0	ND

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 Workorder 3222517

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.37	0.50	73.90	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK	0.3660	0.50	73.10	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.32	0.50	63.30	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	BLK	0.29	0.50	57.60	30 - 123	

**Lab Control Standard** 3448569 (LCS) Created on 01/18/2022 2:31 PM For QC Batch 813623

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	LCS	0.61	0.50	121	58 - 142	
4,4'-DDE	72-55-9	LCS	0.54	0.50	107	61 - 132	
4,4'-DDT	50-29-3	LCS	0.36	0.50	71.50	58 - 140	
Aldrin	309-00-2	LCS	0.37	0.50	73.90	45 - 121	
alpha-Chlordane	5103-71-9	LCS	0.51	0.50	101	62 - 131	
alpha-HCH (alpha-BHC)	319-84-6	LCS	0.54	0.50	107	60 - 137	
beta-BHC	319-85-7	LCS	0.45	0.50	89.20	59 - 139	
delta-BHC	319-86-8	LCS	0.50	0.50	100	59 - 141	
Dieldrin	60-57-1	LCS	0.54	0.50	107	61 - 138	
Endosulfan I	959-98-8	LCS	0.50	0.50	100	53 - 128	
Endosulfan II	33213-65-9	LCS	0.52	0.50	103	57 - 142	
Endosulfan Sulfate	1031-07-8	LCS	0.53	0.50	106	36 - 148	
Endrin	72-20-8	LCS	0.48	0.50	96.30	58 - 143	
Endrin Aldehyde	7421-93-4	LCS	0.37	0.50	74.60	23 - 139	
Endrin Ketone	53494-70-5	LCS	0.52	0.50	105	51 - 139	
gamma-BHC	58-89-9	LCS	0.52	0.50	103	58 - 138	
gamma-Chlordane	5103-74-2	LCS	0.51	0.50	101	60 - 129	
Heptachlor	76-44-8	LCS	0.32	0.50	64.20	41 - 124	
Heptachlor Epoxide	1024-57-3	LCS	0.51	0.50	102	62 - 131	
Methoxychlor	72-43-5	LCS	0.48	0.50	96.10	56 - 140	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.3380	0.50	67.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.3390	0.50	67.80	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.32	0.50	63.60	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.30	0.50	60.10	30 - 123	

## Semi-Volatiles - GC SW846 8082A

### QC Batch

QC Batch	813625	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8082A
Tech.	AJW		

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**Matrix Spike** 3448579 (MS) Aliquot from 3222512001 For QC Batch 813625

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3448580 (MSD) Aliquot from 3222512001 For QC Batch 813625

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	3.90	4.90	79.80	43 - 132	
Aroclor-1016	12674-11-2	MSD	2.70	4.80	56.70	43 - 132	RPD 35.60 (Max-40)
Aroclor-1260	11096-82-5	MS	4.70	4.90	97.70	43 - 132	
Aroclor-1260	11096-82-5	MSD	4.30	4.80	90.60	43 - 132	RPD 9.43 (Max-40)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.21	0.49	44	30 - 140	
Decachlorobiphenyl	2051-24-3	MSD	0.20	0.48	42.20	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MS	0.21	0.49	43.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MSD	0.20	0.48	42	30 - 140	
Tetrachloro-m-xylene	877-09-8	MS	0.29	0.49	58.80	30 - 133	
Tetrachloro-m-xylene	877-09-8	MSD	0.18	0.48	38.50	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.49	50.40	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MSD	0.15	0.48	31.10	30 - 133	

**Method Blank** 3448577 (MB) Created on 01/18/2022 2:39 PM For QC Batch 813625

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	ug/L	0.50	ND
Aroclor-1221	11104-28-2	BLK	ND	ug/L	0.50	ND
Aroclor-1232	11141-16-5	BLK	ND	ug/L	0.50	ND
Aroclor-1242	53469-21-9	BLK	ND	ug/L	0.50	ND
Aroclor-1248	12672-29-6	BLK	ND	ug/L	0.50	ND
Aroclor-1254	11097-69-1	BLK	ND	ug/L	0.50	ND
Aroclor-1260	11096-82-5	BLK	ND	ug/L	0.50	ND
Aroclor-1262	37324-23-5	BLK	ND	ug/L	0.50	ND
Aroclor-1268	11100-14-4	BLK	ND	ug/L	0.50	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.33	0.50	66.30	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK	0.33	0.50	65.50	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.33	0.50	65.60	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	BLK	0.30	0.50	59.20	30 - 133	

**Lab Control Standard** 3448578 (LCS) Created on 01/18/2022 2:39 PM For QC Batch 813625

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Workorder 3222517

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	5	5	99.10	43 - 132	
Aroclor-1260	11096-82-5	LCS	4.90	5	97.10	43 - 132	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.31	0.50	61.50	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.31	0.50	62.40	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.34	0.50	68.70	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.32	0.50	63.60	30 - 133	

AR 004390



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222517

## Metals Analytical SW846 6020A

### QC Batch

QC Batch	813236	Prep Method	SW846 3015
Date	01/16/2022 1:15 PM	Analysis Method	SW846 6020A
Tech.	AHI		

**Matrix Spike** 3447723 (MS) Aliquot from 3222369030 For QC Batch 813236

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3447724 (MSD) Aliquot from 3222369030 For QC Batch 813236

### RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers		
Arsenic, Total	7440-38-2	MS	0.24	0.2350	99.90	75 - 125			
Arsenic, Total	7440-38-2	MSD	0.23	0.2350	97.70	75 - 125	RPD	2	(Max-20)
Lead, Total	7439-92-1	MS	0.22	0.220072	101	75 - 125			
Lead, Total	7439-92-1	MSD	0.22	0.220072	97.80	75 - 125	RPD	2.99	(Max-20)

**Matrix Spike** 3447725 (MS) Aliquot from 3222512001 For QC Batch 813236

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3447726 (MSD) Aliquot from 3222512001 For QC Batch 813236

### RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers		
Arsenic, Total	7440-38-2	MS	0.23	0.2223	101	75 - 125			
Arsenic, Total	7440-38-2	MSD	0.21	0.2223	94.90	75 - 125	RPD	6.30	(Max-20)
Barium, Total	7440-39-3	MS	2.80	2.60	108	75 - 125			
Barium, Total	7440-39-3	MSD	2.70	2.60	102	75 - 125	RPD	5.30	(Max-20)
Lead, Total	7439-92-1	MS	0.24	0.220170	106	75 - 125			
Lead, Total	7439-92-1	MSD	0.22	0.220170	101	75 - 125	RPD	4.67	(Max-20)

**Method Blank** 3447721 (MB) Created on 01/16/2022 8:39 AM For QC Batch 813236

### RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0033	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.0056	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0022	ND

AR 004391



Lab Control Standard 3447722 (LCS) Created on 01/16/2022 8:39 AM For QC Batch 813236

RESULTS

Compound	CAS No		Result (mg/L)	Expected (mg/L)	Rec. (%)	Limits (%)	Qualifiers
Arsenic, Total	7440-38-2	LCS	0.21	0.22	95.90	80 - 120	
Barium, Total	7440-39-3	LCS	2.30	2.20	102	80 - 120	
Lead, Total	7439-92-1	LCS	0.22	0.22	99	80 - 120	







**Sender's address:**

VHB, Inc.  
100 State St, Suite 600,  
Montpelier, VT 05602

**Receiver's address:**

ALS Environmental  
301 Fulling Mill Rd  
Middletown, PA 17057

Re: Contents in the package

To whomever it may concern,

VHB is an engineering consulting firm that is conducting research on the behalf of National Park Service (NPS) at Caneel Bay Resort at the Virgin Islands National Park, St. John, US Virgin Islands. The project involves collecting groundwater samples at the resort that are being shipped to a laboratory in Middletown, Pennsylvania.

The package contains groundwater samples enclosed in tightly sealed glass/plastic bottles. The package also contains bagged ice to maintain the temperature of the samples.

These groundwater samples will be sent to the laboratory for chemical analysis to determine the concentration of contaminants in the groundwater.

**The samples must arrive at the laboratory within 1 week of sampling or the data will be compromised.**

If you have further questions, please contact the VHB Project Manager, Rhonda Kay, PE at (802) 778-1277 or rkay@vhb.com. Thank you for your cooperation.

Sincerely,

VHB

Rhonda Kay  
Senior Engineer

## SDG 3222521 – Data Review

### General

The table below lists the sample IDs with the corresponding date sampled and analyzed

Sample ID	Date Sampled	Methods Analyzed	Sample Type
MW-2-21	01/13/2022	8260D 8082A 8081B	Primary
MW-2-22	01/13/2022	8260D 8082A 8081B	Primary
MW-104	01/13/2022	8260D 8082A 8081B	Primary

#### I. Holding Times

Samples were shipped to ALS Environmental, Middletown, Pennsylvania. The COCs for the samples in SDG 3222512 listed the sample dates as 01/13/2022. According to the COCs, the temperature of the cooler at receipt was 1°C and in acceptable condition. No qualification on sample results is warranted based on holding times requirements.

### Volatiles Data Review

#### I. GC/MS Instrument Performance Check

No GC/MS Instrument Performance Checks (IPCs) were completed for the SDG.

#### II. Initial Calibration

The initial calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### III. Continuing Calibration

The continuing calibration standards were run; however, no documentation with additional information regarding the calibration check was provided in the laboratory report.

#### IV. Blanks

Four method blanks (3448611MB, 3449667MB, 3448568MB, and 344877MB) were analyzed for the samples in SDG 3222521 using EPA 8260D, EPA 8270D, EPA

8081B, and 8082A. The method blanks did not have detections for any analytes; therefore, no qualification of the data is necessary.

#### **V. Surrogate Percent Recovery Compounds**

All reported Deuterated Monitoring Compounds (DMCs) percent recoveries for samples for analyzed in SDG 3222521 meet QC criteria except terphenyl-d14; therefore, all affected samples are qualified J;SUR.

#### **VI. Matrix Spikes/ Matrix Spike Duplicates**

Sample (sample ID) was used as the matrix spike (MS) and matrix spike duplicates (MSD). The MS/MSD was analyzed for various VOCs to identify the interaction of the sample matrix. EPA 8260D was completed using matrix that is site derived, but from another SDG; therefore, no qualification of the data is necessary. Chloroethane exceeded QC limits and is therefore qualified J;MS or U;MS if result is ND.

The MS/MSD was analyzed for various pesticides to identify the interaction of the sample matrix. EPA 8270D was completed using matrix that is site derived, but from another SDG; therefore, no qualification of the data is necessary. Terphenyl-d14 exceeded QC limits and is therefore qualified J;MS and J;MSD (U;MS and U;MSD if result is ND).

The MS/MSD was analyzed for various pesticides to identify the interaction of the sample matrix. EPA 8081B was completed using matrix that is site derived, but from another SDG; therefore, no qualification of the data is necessary. 4,4'-DDT exceeded QC limits and is therefore qualified J;MS or U;MS if result is ND.

#### **VII. Duplicate Analysis MSD**

All relative percent differences were within QC limits for each analysis; therefore, no qualification of the data is necessary.

#### **VIII. Laboratory Control Sample**

Laboratory control samples (LCS) samples were analyzed in SDG 3222521. All percent recoveries were within acceptable QC limits except for terphenyl-d14; therefore, the affected samples are qualified J;LCS or U;LCS if result is ND.

#### **IX. Regional Quality Assurance and Quality Control**

No field duplicates were designated in SDG 3222521.

#### **X. Completeness**

Prescribed field sampling of SDG 3222521 was completed according to the sampling design.

Laboratory analysis of SDG 3222521 was completed according to the COC and has a completeness score of 100%.

**XI. Comparability**

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

**XII. Internal Standards**

Internal standard area counts for the samples were within the upper and lower quality control limits. No assessment of the data is necessary based on acceptable internal standard area counts.

**XIII. Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs)**

Compound quantitation and reported CRQLs were reviewed for accuracy. No discrepancies were identified.

**XIV. Tentatively Identified Compounds**

Tentatively identified compounds (TICs) and library searches were reported in the SDG data package.

**XV. System Performance**

A review of instrument quality control performance did not reveal issues in the calibrations, tuning and blanks submitted with the batch data package.

**XVI. Overall Assessment of Data**

Data was validated according to USEPA Contract Laboratory Program National Functional Guidelines for Superfund Volatiles Methods Data Review, June 2008.

Multiple “J” flags were assigned; however, no data was rejected. Completeness goals were met.





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Analytical Results Report For

**VHB - Vermont**

Project 2022-Caneel Bay Resort, Virgin

Workorder 3222521

Report ID 145069 on 1/25/2022

## Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jan 15, 2022.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ben Deede - VHB

Rhonda Kay - VHB - Vermont

*Sarah Leung*

**Sarah Leung**

(ALS Digital Signature)

Project Coordinator

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

AR 004398



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3222521001	MW-2-21	Water	01/13/2022 9:00 AM	01/15/2022 9:09 AM	CBC	Collected By Client
3222521002	MW-2-22	Water	01/13/2022 10:10 AM	01/15/2022 9:09 AM	CBC	Collected By Client
3222521003	MW-104	Water	01/13/2022 12:00 PM	01/15/2022 9:09 AM	CBC	Collected By Client

## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

### Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits



Project Notations

This report was revised to add 8270 PAH testing per the request of Rhonda Key. EMP 1/20/22

Sample Notations

Lab ID Sample ID

Result Notations

Notation #	
1	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits in the batch laboratory control sample. The % Recovery was reported as 32.2 and the control limits were 41 to 145. This result was reported at a dilution of 1.
2	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 26.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
3	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 31.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.
4	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 36.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID **MW-2-21**  
Lab Sample ID **3222521001**

Collected **01/13/2022 9:00 AM**  
Lab Receipt **01/15/2022 9:09 AM**

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A  
Batch N/A  
Date N/A

Container 3222521001-A(Hydrochloric Acid)  
Aliquot 5 mL  
Tech. N/A

### Analysis

Method SW846 8260D  
Batch 813657  
Date 01/19/2022 1:48 PM

Fraction  
Dilution 1  
Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	ND	ug/L	10.0	3.1	C,ND
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	0.41J	ug/L	1.0	0.39	C,J
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;MS
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

AR 004402

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Client Sample ID	MW-2-21	Collected	01/13/2022 9:00 AM
Lab Sample ID	322521001	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Methyl t-Butyl Ether	1634-04-4	0.47J	ug/L	1.0	0.33	C,J
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110 %	62 - 133	
4-Bromofluorobenzene	460-00-4	99.80 %	79 - 114	
Dibromofluoromethane	1868-53-7	103 %	78 - 116	
Toluene-d8	2037-26-5	105 %	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	322521001-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 1:31 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MDL	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

AR 004403



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	MW-2-21	Collected	01/13/2022 9:00 AM
Lab Sample ID	3222521001	Lab Receipt	01/15/2022 9:09 AM

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	41.80 %	24 - 116	
Nitrobenzene-d5	4165-60-0	41.60 %	32 - 125	
Terphenyl-d14	98904-43-9	26.70 %	41 - 145	J;LC J;MS J;SU

#### Semi-Volatiles - GC SW846 8081B

##### Prep

Method	SW846 3511	Container	3222521001-D(Unpreserved)
Batch	813623	Aliquot	104 mL
Date	01/18/2022 4:50 PM	Tech.	AJW

##### Analysis

Method	SW846 8081B	Fraction	Pest
Batch	813745	Dilution	1
Date	01/19/2022 11:47 AM	Analyst	KJH

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
4,4'-DDD	72-54-8	ND	ug/L	0.019	0.0069	C,ND
4,4'-DDE	72-55-9	ND	ug/L	0.019	0.0025	C,ND
4,4'-DDT	50-29-3	ND	ug/L	0.019	0.012	U;MS
Aldrin	309-00-2	ND	ug/L	0.019	0.0025	C,ND
alpha-Chlordane	5103-71-9	ND	ug/L	0.019	0.0077	C,ND
alpha-HCH (alpha-BHC)	319-84-6	ND	ug/L	0.019	0.0030	C,ND
beta-BHC	319-85-7	ND	ug/L	0.019	0.0058	C,ND
delta-BHC	319-86-8	ND	ug/L	0.019	0.0028	C,ND
Dieldrin	60-57-1	ND	ug/L	0.019	0.0045	C,ND
Endosulfan I	959-98-8	ND	ug/L	0.019	0.0055	C,ND
Endosulfan II	33213-65-9	ND	ug/L	0.019	0.012	C,ND
Endosulfan Sulfate	1031-07-8	ND	ug/L	0.019	0.0087	C,ND
Endrin	72-20-8	ND	ug/L	0.019	0.0058	C,ND
Endrin Aldehyde	7421-93-4	ND	ug/L	0.019	0.0074	C,ND
Endrin Ketone	53494-70-5	ND	ug/L	0.019	0.0097	C,ND
gamma-BHC	58-89-9	ND	ug/L	0.019	0.0046	C,ND
gamma-Chlordane	5103-74-2	ND	ug/L	0.019	0.0047	C,ND
Heptachlor	76-44-8	ND	ug/L	0.019	0.0057	C,ND
Heptachlor Epoxide	1024-57-3	ND	ug/L	0.019	0.0038	C,ND
Methoxychlor	72-43-5	ND	ug/L	0.019	0.013	C,ND
Toxaphene	8001-35-2	ND	ug/L	0.96	0.18	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	48.20 %	30 - 140	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	<b>MW-2-21</b>	Collected	<b>01/13/2022 9:00 AM</b>
Lab Sample ID	<b>3222521001</b>	Lab Receipt	<b>01/15/2022 9:09 AM</b>

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl.	2051-24-3X	49.30 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	61.20 %	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	59.50 %	30 - 123	

#### Semi-Volatiles - GC SW846 8082A

##### Prep

<u>Method</u>	SW846 3511	<u>Container</u>	3222521001-F(Unpreserved)
<u>Batch</u>	813625	<u>Aliquot</u>	104 mL
<u>Date</u>	01/18/2022 4:50 PM	<u>Tech</u>	AJW

##### Analysis

<u>Method</u>	SW846 8082A	<u>Fraction</u>	Aroclor
<u>Batch</u>	813717	<u>Dilution</u>	1
<u>Date</u>	01/19/2022 1:12 PM	<u>Analyst</u>	EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.48	0.16	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.48	0.27	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.48	0.17	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.48	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.48	0.13	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.48	0.067	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.48	0.20	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.48	0.13	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.48	0.18	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	39.80 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	40.40 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	64.30 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	56.40 %	30 - 133	

AR 004405



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID **MW-2-22**  
Lab Sample ID **3222521002**

Collected **01/13/2022 10:10 AM**  
Lab Receipt **01/15/2022 9:09 AM**

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A Container 3222521002-A(Hydrochloric Acid)  
Batch N/A Aliquot 5 mL  
Date N/A Tech. N/A

### Analysis

Method SW846 8260D Fraction  
Batch 813657 Dilution 1  
Date 01/19/2022 4:26 PM Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	ND	ug/L	10.0	3.1	C,ND
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	ND	ug/L	1.0	0.39	C,ND
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;MS
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	0.39J	ug/L	1.0	0.31	C,J
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

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Client Sample ID	MW-2-22	Collected	01/13/2022 10:10 AM
Lab Sample ID	322521002	Lab Receipt	01/15/2022 9:09 AM

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Methyl t-Butyl Ether	1634-04-4	0.64J	ug/L	1.0	0.33	C,J
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106 %	62 - 133	
4-Bromofluorobenzene	460-00-4	99.80 %	79 - 114	
Dibromofluoromethane	1868-53-7	100 %	78 - 116	
Toluene-d8	2037-26-5	104 %	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	322521002-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 1:56 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	MW-2-22	Collected	01/13/2022 10:10 AM
Lab Sample ID	3222521002	Lab Receipt	01/15/2022 9:09 AM

#### RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	70.80 %	24 - 116	
Nitrobenzene-d5	4165-60-0	72.70 %	32 - 125	
Terphenyl-d14	98904-43-9	31.80 %	41 - 145	J;LC J;MS J;SU

#### Semi-Volatiles - GC SW846 8081B

##### Prep

Method	SW846 3511	Container	3222521002-D(Unpreserved)
Batch	813623	Aliquot	106 mL
Date	01/18/2022 4:50 PM	Tech.	AJW

##### Analysis

Method	SW846 8081B	Fraction	Pest
Batch	813745	Dilution	1
Date	01/19/2022 11:57 AM	Analyst	KJH

#### RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
4,4'-DDD	72-54-8	ND	ug/L	0.019	0.0068	C,ND
4,4'-DDE	72-55-9	ND	ug/L	0.019	0.0025	C,ND
4,4'-DDT	50-29-3	ND	ug/L	0.019	0.012	U;MS
Aldrin	309-00-2	ND	ug/L	0.019	0.0025	C,ND
alpha-Chlordane	5103-71-9	ND	ug/L	0.019	0.0075	C,ND
alpha-HCH (alpha-BHC)	319-84-6	ND	ug/L	0.019	0.0029	C,ND
beta-BHC	319-85-7	ND	ug/L	0.019	0.0057	C,ND
delta-BHC	319-86-8	ND	ug/L	0.019	0.0027	C,ND
Dieldrin	60-57-1	ND	ug/L	0.019	0.0044	C,ND
Endosulfan I	959-98-8	ND	ug/L	0.019	0.0054	C,ND
Endosulfan II	33213-65-9	ND	ug/L	0.019	0.011	C,ND
Endosulfan Sulfate	1031-07-8	ND	ug/L	0.019	0.0085	C,ND
Endrin	72-20-8	ND	ug/L	0.019	0.0057	C,ND
Endrin Aldehyde	7421-93-4	ND	ug/L	0.019	0.0073	C,ND
Endrin Ketone	53494-70-5	ND	ug/L	0.019	0.0095	C,ND
gamma-BHC	58-89-9	ND	ug/L	0.019	0.0045	C,ND
gamma-Chlordane	5103-74-2	ND	ug/L	0.019	0.0046	C,ND
Heptachlor	76-44-8	ND	ug/L	0.019	0.0056	C,ND
Heptachlor Epoxide	1024-57-3	ND	ug/L	0.019	0.0038	C,ND
Methoxychlor	72-43-5	ND	ug/L	0.019	0.013	C,ND
Toxaphene	8001-35-2	ND	ug/L	0.94	0.18	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	50.90 %	30 - 140	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	MW-2-22	Collected	01/13/2022 10:10 AM
Lab Sample ID	3222521002	Lab Receipt	01/15/2022 9:09 AM

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl.	2051-24-3X	52.70 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	51.70 %	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	50 %	30 - 123	

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method	SW846 3511	Container	3222521002-F(Unpreserved)
Batch	813625	Aliquot	106 mL
Date	01/18/2022 4:50 PM	Tech	AJW

##### Analysis

Method	SW846 8082A	Fraction	Aroclor
Batch	813717	Dilution	1
Date	01/19/2022 1:24 PM	Analyst	EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.47	0.16	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.47	0.26	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.47	0.17	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.47	0.10	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.47	0.13	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.47	0.066	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.47	0.20	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.47	0.13	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.47	0.18	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	51.20 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	52.10 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	54.70 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	48.60 %	30 - 133	

AR 004409



Project 2022-Caneel Bay Resort, Virgin  
Workorder 322521

Client Sample ID **MW-104**  
Lab Sample ID **322521003**

Collected **01/13/2022 12:00 PM**  
Lab Receipt **01/15/2022 9:09 AM**

## Volatiles - GC/MS SW846 8260D

### Prep

Method N/A  
Batch N/A  
Date N/A

Container 322521003-A(Hydrochloric Acid)  
Aliquot 5 mL  
Tech. N/A

### Analysis

Method SW846 8260D  
Batch 813657  
Date 01/19/2022 2:11 PM

Fraction  
Dilution 1  
Analyst TMP

## RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND	ug/L	1.0	0.22	C,ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	1.0	0.34	C,ND
1,1,2-Trichloroethane	79-00-5	ND	ug/L	1.0	0.33	C,ND
1,1-Dichloroethane	75-34-3	ND	ug/L	1.0	0.28	C,ND
1,1-Dichloroethene	75-35-4	ND	ug/L	1.0	0.29	C,ND
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	2.0	0.93	C,ND
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	2.0	0.82	C,ND
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	7.0	1.5	C,ND
1,2-Dibromoethane	106-93-4	ND	ug/L	1.0	0.28	C,ND
1,2-Dichlorobenzene	95-50-1	ND	ug/L	1.0	0.38	C,ND
1,2-Dichloroethane	107-06-2	ND	ug/L	1.0	0.32	C,ND
1,2-Dichloropropane	78-87-5	ND	ug/L	1.0	0.24	C,ND
1,3-Dichlorobenzene	541-73-1	ND	ug/L	1.0	0.25	C,ND
1,4-Dichlorobenzene	106-46-7	ND	ug/L	1.0	0.27	C,ND
2-Butanone	78-93-3	ND	ug/L	10.0	1.8	C,ND
2-Hexanone	591-78-6	ND	ug/L	5.0	1.3	C,ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	ND	ug/L	5.0	1.5	C,ND
Acetone	67-64-1	ND	ug/L	10.0	3.1	C,ND
Benzene	71-43-2	ND	ug/L	1.0	0.23	C,ND
Bromochloromethane	74-97-5	ND	ug/L	1.0	0.32	C,ND
Bromodichloromethane	75-27-4	ND	ug/L	1.0	0.27	C,ND
Bromoform	75-25-2	ND	ug/L	1.0	0.40	C,ND
Bromomethane	74-83-9	0.41J	ug/L	1.0	0.39	C,J
Carbon Disulfide	75-15-0	ND	ug/L	1.0	0.23	C,ND
Carbon Tetrachloride	56-23-5	ND	ug/L	1.0	0.31	C,ND
Chlorobenzene	108-90-7	ND	ug/L	1.0	0.19	C,ND
Chlorodibromomethane	124-48-1	ND	ug/L	1.0	0.45	C,ND
Chloroethane	75-00-3	ND	ug/L	1.0	0.33	U;MS
Chloroform	67-66-3	ND	ug/L	1.0	0.21	C,ND
Chloromethane	74-87-3	ND	ug/L	1.0	0.31	C,ND
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	1.0	0.32	C,ND
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	1.0	0.31	C,ND
Cyclohexane	110-82-7	ND	ug/L	1.0	0.29	C,ND
Dichlorodifluoromethane	75-71-8	ND	ug/L	1.0	0.33	C,ND
Ethylbenzene	100-41-4	ND	ug/L	1.0	0.34	C,ND
Freon 113	76-13-1	ND	ug/L	1.0	0.26	C,ND
Isopropylbenzene	98-82-8	ND	ug/L	1.0	0.22	C,ND
Methyl acetate	79-20-9	ND	ug/L	2.0	0.32	C,ND
Methyl cyclohexane	108-87-2	ND	ug/L	1.0	0.30	C,ND

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Client Sample ID	<b>MW-104</b>	Collected	<b>01/13/2022 12:00 PM</b>
Lab Sample ID	<b>322521003</b>	Lab Receipt	<b>01/15/2022 9:09 AM</b>

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Methyl t-Butyl Ether	1634-04-4	0.67J	ug/L	1.0	0.33	C,J
Methylene Chloride	75-09-2	ND	ug/L	1.0	0.45	C,ND
mp-Xylene	108383/106423	ND	ug/L	2.0	0.52	C,ND
o-Xylene	95-47-6	ND	ug/L	1.0	0.33	C,ND
Styrene	100-42-5	ND	ug/L	1.0	0.24	C,ND
Tetrachloroethene	127-18-4	ND	ug/L	1.0	0.35	C,ND
Toluene	108-88-3	ND	ug/L	1.0	0.23	C,ND
Total Xylenes	1330-20-7	ND	ug/L	3.0	0.66	C,ND
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	1.0	0.26	C,ND
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	1.0	0.29	C,ND
Trichloroethene	79-01-6	ND	ug/L	1.0	0.33	C,ND
Trichlorofluoromethane	75-69-4	ND	ug/L	1.0	0.24	C,ND
Vinyl Chloride	75-01-4	ND	ug/L	1.0	0.30	C,ND

## SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 - 133	
4-Bromofluorobenzene	460-00-4	99.30%	79 - 114	
Dibromofluoromethane	1868-53-7	102%	78 - 116	
Toluene-d8	2037-26-5	103%	76 - 127	

## Semi-Volatiles - GC/MS SW846 8270D

### Prep

Method	SW846 3510C	Container	322521003-E(Unpreserved)
Batch	814300	Aliquot	250 mL
Date	01/20/2022 4:30 PM	Tech.	JIH

### Analysis

Method	SW846 8270D	Fraction	BNA
Batch	814912	Dilution	1
Date	01/24/2022 2:47 PM	Analyst	GEC

## RESULTS

Compound	CAS No	Result	Units	RD	MD	Qualifiers
Acenaphthene	83-32-9	ND	ug/L	6.0	1.0	C,ND
Acenaphthylene	208-96-8	ND	ug/L	6.0	1.0	C,ND
Anthracene	120-12-7	ND	ug/L	6.0	1.0	C,ND
Benzo(a)anthracene	56-55-3	ND	ug/L	6.0	1.0	C,ND
Benzo(a)pyrene	50-32-8	ND	ug/L	6.0	1.0	C,ND
Benzo(b)fluoranthene	205-99-2	ND	ug/L	6.0	1.0	C,ND
Benzo(g,h,i)perylene	191-24-2	ND	ug/L	6.0	1.0	C,ND
Benzo(k)fluoranthene	207-08-9	ND	ug/L	6.0	1.0	C,ND
Chrysene	218-01-9	ND	ug/L	6.0	1.0	C,ND
Dibenzo(a,h)anthracene	53-70-3	ND	ug/L	6.0	1.0	C,ND
Fluoranthene	206-44-0	ND	ug/L	6.0	1.0	C,ND
Fluorene	86-73-7	ND	ug/L	6.0	1.0	C,ND
Indeno(1,2,3-cd)pyrene	193-39-5	ND	ug/L	6.0	1.0	C,ND
Naphthalene	91-20-3	ND	ug/L	6.0	1.0	C,ND

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	<b>MW-104</b>	Collected	<b>01/13/2022 12:00 PM</b>
Lab Sample ID	<b>3222521003</b>	Lab Receipt	<b>01/15/2022 9:09 AM</b>

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Phenanthrene	85-01-8	ND	ug/L	6.0	1.0	C,ND
Pyrene	129-00-0	ND	ug/L	6.0	1.0	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
2-Fluorobiphenyl	321-60-8	77%	24 - 116	
Nitrobenzene-d5	4165-60-0	81.20%	32 - 125	
Terphenyl-d14	98904-43-9	36.80%	41 - 145	J;LC J;MS J;SU

#### Semi-Volatiles - GC SW846 8081B

##### Prep

<u>Method</u>	SW846 3511	<u>Container</u>	3222521003-D(Unpreserved)
<u>Batch</u>	813623	<u>Aliquot</u>	101 mL
<u>Date</u>	01/18/2022 4:50 PM	<u>Tech</u>	AJW

##### Analysis

<u>Method</u>	SW846 8081B	<u>Fraction</u>	Pest
<u>Batch</u>	813745	<u>Dilution</u>	1
<u>Date</u>	01/19/2022 12:40 PM	<u>Analyst</u>	KJH

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
4,4'-DDD	72-54-8	ND	ug/L	0.020	0.0071	C,ND
4,4'-DDE	72-55-9	ND	ug/L	0.020	0.0026	C,ND
4,4'-DDT	50-29-3	ND	ug/L	0.020	0.013	U;MS
Aldrin	309-00-2	ND	ug/L	0.020	0.0026	C,ND
alpha-Chlordane	5103-71-9	ND	ug/L	0.020	0.0079	C,ND
alpha-HCH (alpha-BHC)	319-84-6	ND	ug/L	0.020	0.0031	C,ND
beta-BHC	319-85-7	ND	ug/L	0.020	0.0059	C,ND
delta-BHC	319-86-8	ND	ug/L	0.020	0.0029	C,ND
Dieldrin	60-57-1	ND	ug/L	0.020	0.0047	C,ND
Endosulfan I	959-98-8	ND	ug/L	0.020	0.0056	C,ND
Endosulfan II	33213-65-9	ND	ug/L	0.020	0.012	C,ND
Endosulfan Sulfate	1031-07-8	ND	ug/L	0.020	0.0089	C,ND
Endrin	72-20-8	ND	ug/L	0.020	0.0059	C,ND
Endrin Aldehyde	7421-93-4	ND	ug/L	0.020	0.0076	C,ND
Endrin Ketone	53494-70-5	ND	ug/L	0.020	0.010	C,ND
gamma-BHC	58-89-9	ND	ug/L	0.020	0.0048	C,ND
gamma-Chlordane	5103-74-2	ND	ug/L	0.020	0.0049	C,ND
Heptachlor	76-44-8	ND	ug/L	0.020	0.0058	C,ND
Heptachlor Epoxide	1024-57-3	ND	ug/L	0.020	0.0040	C,ND
Methoxychlor	72-43-5	ND	ug/L	0.020	0.013	C,ND
Toxaphene	8001-35-2	ND	ug/L	0.99	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	48.70%	30 - 140	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

Client Sample ID	<b>MW-104</b>	Collected	<b>01/13/2022 12:00 PM</b>
Lab Sample ID	<b>3222521003</b>	Lab Receipt	<b>01/15/2022 9:09 AM</b>

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl.	2051-24-3X	50.40 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	59.50 %	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	58.20 %	30 - 123	

#### Semi-Volatiles - GC SW846 8082A

##### Prep

Method SW846 3511 Container 3222521003-F(Unpreserved)  
Batch 813625 Aliquot 101 mL  
Date 01/18/2022 4:50 PM Tech AJW

##### Analysis

Method SW846 8082A Fraction Aroclor  
Batch 813717 Dilution 1  
Date 01/19/2022 2:11 PM Analyst EGO

#### RESULTS

Compound	CAS No	Result	Units	RDL	MDL	Qualifiers
Aroclor-1016	12674-11-2	ND	ug/L	0.50	0.17	C,ND
Aroclor-1221	11104-28-2	ND	ug/L	0.50	0.28	C,ND
Aroclor-1232	11141-16-5	ND	ug/L	0.50	0.18	C,ND
Aroclor-1242	53469-21-9	ND	ug/L	0.50	0.11	C,ND
Aroclor-1248	12672-29-6	ND	ug/L	0.50	0.14	C,ND
Aroclor-1254	11097-69-1	ND	ug/L	0.50	0.069	C,ND
Aroclor-1260	11096-82-5	ND	ug/L	0.50	0.21	C,ND
Aroclor-1262	37324-23-5	ND	ug/L	0.50	0.14	C,ND
Aroclor-1268	11100-14-4	ND	ug/L	0.50	0.19	C,ND

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Qualifiers
Decachlorobiphenyl	2051-24-3	48.10 %	30 - 140	
Decachlorobiphenyl.	2051-24-3X	48.30 %	30 - 140	
Tetrachloro-m-xylene	877-09-8	62.20 %	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	56.60 %	30 - 133	

AR 004413



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3222521001	MW-2-21	SW846 8081B	SW846 3511	
		SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222521002	MW-2-22	SW846 8081B	SW846 3511	
		SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	
3222521003	MW-104	SW846 8081B	SW846 3511	
		SW846 8082A	SW846 3511	
		SW846 8270D	SW846 3510C	
		SW846 8260D	N/A	



QUALITY CONTROL SAMPLES

Volatiles - GC/MS  
SW846 8260D

QC Batch

QC Batch813657

Prep MethodN/A

DateN/A

Analysis MethodSW846 8260D

TechN/A

Matrix Spike3448917 (MS)Aliquot from 3222512001For QC Batch 813657

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate3448918 (MSD)Aliquot from 3222512001For QC Batch 813657

RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers	
1,1,1-Trichloroethane	71-55-6	MS	22.10	20	110	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	21.90	20	109	66 - 130	RPD	0.85 (Max-20)
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.30	20	102	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	20.40	20	102	74 - 135	RPD	0.21 (Max-16)
1,1,2-Trichloroethane	79-00-5	MS	19.60	20	98.20	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	20.20	20	101	82 - 126	RPD	2.60 (Max-15)
1,1-Dichloroethane	75-34-3	MS	21.60	20	108	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	21	20	105	78 - 124	RPD	2.73 (Max-15)
1,1-Dichloroethene	75-35-4	MS	23.10	20	116	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	23	20	115	63 - 128	RPD	0.40 (Max-21)
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	20	91	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.90	20	99.40	61 - 126	RPD	8.88 (Max-36)
1,2,4-Trichlorobenzene	120-82-1	MS	18.30	20	91.60	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	19.80	20	98.90	67 - 123	RPD	7.63 (Max-22)
1,2-Dibromo-3-chloropropane	96-12-8	MS	17.70	20	88.30	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18.10	20	90.50	59 - 133	RPD	2.44 (Max-26)
1,2-Dibromoethane	106-93-4	MS	19.40	20	96.80	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19.80	20	98.80	80 - 124	RPD	2.06 (Max-19)
1,2-Dichlorobenzene	95-50-1	MS	20.10	20	100	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	20.80	20	104	82 - 118	RPD	3.42 (Max-15)
1,2-Dichloroethane	107-06-2	MS	21.10	20	106	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.90	20	105	70 - 133	RPD	0.90 (Max-19)
1,2-Dichloropropane	78-87-5	MS	21.20	20	106	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	21	20	105	81 - 127	RPD	1.03 (Max-15)
1,3-Dichlorobenzene	541-73-1	MS	19.80	20	98.80	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	20.70	20	103	81 - 118	RPD	4.44 (Max-16)
1,4-Dichlorobenzene	106-46-7	MS	19.80	20	99.10	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	20.20	20	101	81 - 116	RPD	2.15 (Max-15)
2-Butanone	78-93-3	MS	94.70	100	94.70	50 - 152		
2-Butanone	78-93-3	MSD	102	100	102	50 - 152	RPD	7.06 (Max-16)
2-Hexanone	591-78-6	MS	97.80	100	97.80	65 - 154		
2-Hexanone	591-78-6	MSD	98.50	100	98.50	65 - 154	RPD	0.75 (Max-17)
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	92.50	100	92.50	71 - 146		



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	93.40	100	93.40	71 - 146	RPD	0.94	(Max-16)
Acetone	67-64-1	MS	91.70	105	86.70	40 - 151			
Acetone	67-64-1	MSD	96	105	91	40 - 151	RPD	4.55	(Max-40)
Benzene	71-43-2	MS	21.40	20	107	80 - 124			
Benzene	71-43-2	MSD	21.40	20	107	80 - 124	RPD	0.12	(Max-26)
Bromochloromethane	74-97-5	MS	20.70	20	103	73 - 117			
Bromochloromethane	74-97-5	MSD	20.30	20	101	73 - 117	RPD	1.98	(Max-19)
Bromodichloromethane	75-27-4	MS	20.40	20	102	79 - 126			
Bromodichloromethane	75-27-4	MSD	20.50	20	103	79 - 126	RPD	0.70	(Max-16)
Bromoform	75-25-2	MS	14.80	20	73.80	70 - 123			
Bromoform	75-25-2	MSD	15.60	20	78	70 - 123	RPD	5.64	(Max-16)
Bromomethane	74-83-9	MS	17.80	20	89.20	45 - 148			
Bromomethane	74-83-9	MSD	19.40	20	97.10	45 - 148	RPD	8.50	(Max-26)
Carbon Disulfide	75-15-0	MS	21.20	20	106	57 - 131			
Carbon Disulfide	75-15-0	MSD	21.20	20	106	57 - 131	RPD	0.11	(Max-28)
Carbon Tetrachloride	56-23-5	MS	19	20	95.20	62 - 132			
Carbon Tetrachloride	56-23-5	MSD	19.10	20	95.30	62 - 132	RPD	0.14	(Max-17)
Chlorobenzene	108-90-7	MS	20.30	20	101	85 - 117			
Chlorobenzene	108-90-7	MSD	20.60	20	103	85 - 117	RPD	1.79	(Max-15)
Chlorodibromomethane	124-48-1	MS	17.10	20	85.70	77 - 122			
Chlorodibromomethane	124-48-1	MSD	17.70	20	88.40	77 - 122	RPD	3.09	(Max-15)
Chloroethane	75-00-3	MS	28.90	20	145	51 - 142			
Chloroethane	75-00-3	MSD	27.40	20	137	51 - 142	RPD	5.42	(Max-24)
Chloroform	67-66-3	MS	21.30	20	106	78 - 122			
Chloroform	67-66-3	MSD	20.90	20	104	78 - 122	RPD	2.06	(Max-16)
Chloromethane	74-87-3	MS	17.30	20	86.70	38 - 156			
Chloromethane	74-87-3	MSD	17.70	20	88.30	38 - 156	RPD	1.84	(Max-27)
cis-1,2-Dichloroethene	156-59-2	MS	21.80	20	109	78 - 125			
cis-1,2-Dichloroethene	156-59-2	MSD	21.40	20	107	78 - 125	RPD	1.61	(Max-21)
cis-1,3-Dichloropropene	10061-01-5	MS	17.20	20	86.10	81 - 121			
cis-1,3-Dichloropropene	10061-01-5	MSD	17.10	20	85.40	81 - 121	RPD	0.80	(Max-16)
Cyclohexane	110-82-7	MS	22.60	20	113	66 - 130			
Cyclohexane	110-82-7	MSD	22.40	20	112	66 - 130	RPD	0.55	(Max-20)
Dichlorodifluoromethane	75-71-8	MS	18.50	20	92.70	17 - 166			
Dichlorodifluoromethane	75-71-8	MSD	19	20	95.10	17 - 166	RPD	2.61	(Max-24)
Ethylbenzene	100-41-4	MS	20.60	20	103	80 - 124			
Ethylbenzene	100-41-4	MSD	20.70	20	104	80 - 124	RPD	0.81	(Max-19)
Freon 113	76-13-1	MS	23.40	20	117	50 - 130			
Freon 113	76-13-1	MSD	24.40	20	122	50 - 130	RPD	3.90	(Max-26)
Isopropylbenzene	98-82-8	MS	21.50	20	107	73 - 129			
Isopropylbenzene	98-82-8	MSD	22.20	20	111	73 - 129	RPD	3.51	(Max-18)
Methyl acetate	79-20-9	MS	15	20	74.90	70 - 130			
Methyl acetate	79-20-9	MSD	15.60	20	78	70 - 130	RPD	4.11	(Max-18)
Methyl cyclohexane	108-87-2	MS	20.60	20	103	70 - 130			
Methyl cyclohexane	108-87-2	MSD	21.30	20	107	70 - 130	RPD	3.34	(Max-18)
Methyl t-Butyl Ether	1634-04-4	MS	20.50	20	102	69 - 115			
Methyl t-Butyl Ether	1634-04-4	MSD	20.80	20	104	69 - 115	RPD	1.47	(Max-20)
Methylene Chloride	75-09-2	MS	21.50	20	108	76 - 121			
Methylene Chloride	75-09-2	MSD	21.20	20	106	76 - 121	RPD	1.54	(Max-17)
mp-Xylene	108383/106423	MS	42.70	40	107	79 - 125			
mp-Xylene	108383/106423	MSD	43.20	40	108	79 - 125	RPD	1.11	(Max-21)
o-Xylene	95-47-6	MS	20.20	20	101	79 - 124			

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
o-Xylene	95-47-6	MSD	20.50	20	102	79 - 124	RPD	1.54	(Max-19)
Styrene	100-42-5	MS	21.60	20	108	79 - 123			
Styrene	100-42-5	MSD	21.90	20	109	79 - 123	RPD	1.56	(Max-16)
Tetrachloroethene	127-18-4	MS	19	20	95.10	72 - 124			
Tetrachloroethene	127-18-4	MSD	19.40	20	97.20	72 - 124	RPD	2.26	(Max-38)
Toluene	108-88-3	MS	20.70	20	103	80 - 125			
Toluene	108-88-3	MSD	20.80	20	104	80 - 125	RPD	0.35	(Max-20)
Total Xylenes	1330-20-7	MS	62.90	60	105	79 - 125			
Total Xylenes	1330-20-7	MSD	63.60	60	106	79 - 125	RPD	1.25	(Max-35)
trans-1,2-Dichloroethene	156-60-5	MS	21.50	20	108	71 - 122			
trans-1,2-Dichloroethene	156-60-5	MSD	21.60	20	108	71 - 122	RPD	0.41	(Max-22)
trans-1,3-Dichloropropene	10061-02-6	MS	18	20	90	78 - 126			
trans-1,3-Dichloropropene	10061-02-6	MSD	17.90	20	89.60	78 - 126	RPD	0.44	(Max-18)
Trichloroethene	79-01-6	MS	20.30	20	102	77 - 124			
Trichloroethene	79-01-6	MSD	20.40	20	102	77 - 124	RPD	0.28	(Max-18)
Trichlorofluoromethane	75-69-4	MS	24.30	20	121	38 - 123			
Trichlorofluoromethane	75-69-4	MSD	23	20	115	38 - 123	RPD	5.48	(Max-23)
Vinyl Chloride	75-01-4	MS	20.70	20	104	27 - 138			
Vinyl Chloride	75-01-4	MSD	19.90	20	99.50	27 - 138	RPD	4.13	(Max-40)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.70	30	102	62 - 133		
1,2-Dichloroethane-d4	17060-07-0	MSD	30.60	30	102	62 - 133		
4-Bromofluorobenzene	460-00-4	MS	28.70	30	95.80	79 - 114		
4-Bromofluorobenzene	460-00-4	MSD	29.80	30	99.20	79 - 114		
Dibromofluoromethane	1868-53-7	MS	31.80	30	106	78 - 116		
Dibromofluoromethane	1868-53-7	MSD	31.60	30	105	78 - 116		
Toluene-d8	2037-26-5	MS	30.40	30	101	76 - 127		
Toluene-d8	2037-26-5	MSD	30.70	30	102	76 - 127		

## Method Blank

3448611 (MB)

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For QC Batch 813657

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND

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 Workorder 3222521

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.90	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.10	30	104	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.30	30	108	76 - 127	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

## Lab Control Standard

3448612 (LCS)

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For QC Batch 813657

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.30	20	106	66 - 130	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.80	20	104	74 - 135	
1,1,2-Trichloroethane	79-00-5	LCS	20.90	20	104	82 - 126	
1,1-Dichloroethane	75-34-3	LCS	19.70	20	98.70	78 - 124	
1,1-Dichloroethene	75-35-4	LCS	21.80	20	109	63 - 128	
1,2,3-Trichlorobenzene	87-61-6	LCS	22	20	110	61 - 126	
1,2,4-Trichlorobenzene	120-82-1	LCS	21.60	20	108	67 - 123	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90	20	94.70	59 - 133	
1,2-Dibromoethane	106-93-4	LCS	20.80	20	104	80 - 124	
1,2-Dichlorobenzene	95-50-1	LCS	20.50	20	103	82 - 118	
1,2-Dichloroethane	107-06-2	LCS	20.10	20	101	70 - 133	
1,2-Dichloropropane	78-87-5	LCS	20.50	20	103	81 - 127	
1,3-Dichlorobenzene	541-73-1	LCS	20.10	20	101	81 - 118	
1,4-Dichlorobenzene	106-46-7	LCS	19.80	20	99.20	81 - 116	
2-Butanone	78-93-3	LCS	110	100	110	50 - 152	
2-Hexanone	591-78-6	LCS	111	100	111	65 - 154	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	98	100	98	71 - 146	
Acetone	67-64-1	LCS	137	100	137	40 - 151	
Benzene	71-43-2	LCS	20.40	20	102	80 - 124	
Bromochloromethane	74-97-5	LCS	21.10	20	105	73 - 117	
Bromodichloromethane	75-27-4	LCS	19.80	20	98.80	79 - 126	
Bromoform	75-25-2	LCS	17.60	20	88	70 - 123	
Bromomethane	74-83-9	LCS	21	20	105	45 - 148	
Carbon Disulfide	75-15-0	LCS	21	20	105	57 - 131	
Carbon Tetrachloride	56-23-5	LCS	19.30	20	96.60	62 - 132	
Chlorobenzene	108-90-7	LCS	20	20	99.80	85 - 117	
Chlorodibromomethane	124-48-1	LCS	19.20	20	95.80	77 - 122	
Chloroethane	75-00-3	LCS	21.60	20	108	51 - 142	
Chloroform	67-66-3	LCS	20.10	20	101	78 - 122	
Chloromethane	74-87-3	LCS	17.60	20	88	38 - 156	
cis-1,2-Dichloroethene	156-59-2	LCS	20.60	20	103	78 - 125	
cis-1,3-Dichloropropene	10061-01-5	LCS	18.30	20	91.70	81 - 121	
Cyclohexane	110-82-7	LCS	21.90	20	109	66 - 130	
Dichlorodifluoromethane	75-71-8	LCS	17.10	20	85.60	17 - 166	
Ethylbenzene	100-41-4	LCS	20.20	20	101	80 - 124	
Freon 113	76-13-1	LCS	23.30	20	116	50 - 130	
Isopropylbenzene	98-82-8	LCS	21.10	20	105	73 - 129	
Methyl acetate	79-20-9	LCS	22.60	20	113	70 - 130	
Methyl cyclohexane	108-87-2	LCS	21.90	20	109	70 - 130	
Methyl t-Butyl Ether	1634-04-4	LCS	21.20	20	106	69 - 115	
Methylene Chloride	75-09-2	LCS	20.60	20	103	76 - 121	
mp-Xylene	108383/106423	LCS	42.30	40	106	79 - 125	
o-Xylene	95-47-6	LCS	20.20	20	101	79 - 124	
Styrene	100-42-5	LCS	21.30	20	106	79 - 123	
Tetrachloroethene	127-18-4	LCS	20.30	20	102	72 - 124	
Toluene	108-88-3	LCS	20.50	20	103	80 - 125	
Total Xylenes	1330-20-7	LCS	62.50	60	104	79 - 125	

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Workorder 3222521

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
trans-1,2-Dichloroethene	156-60-5	LCS	20.20	20	101	71 - 122	
trans-1,3-Dichloropropene	10061-02-6	LCS	19.30	20	96.60	78 - 126	
Trichloroethene	79-01-6	LCS	19.70	20	98.50	77 - 124	
Trichlorofluoromethane	75-69-4	LCS	18.70	20	93.70	38 - 123	
Vinyl Chloride	75-01-4	LCS	17.50	20	87.40	27 - 138	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.70	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.10	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.40	30	105	78 - 116	
Toluene-d8	2037-26-5	LCS	31.40	30	105	76 - 127	

AR 004420



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

# Semi-Volatiles - GC/MS SW846 8270D

## QC Batch

QC Batch	814300	Prep Method	SW846 3510C
Date	01/20/2022 4:30 PM	Analysis Method	SW846 8270D
Tech.	J1H		

**Matrix Spike** 3449669 (MS) Aliquot from 3222517003 For QC Batch 814300

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3449670 (MSD) Aliquot from 3222517003 For QC Batch 814300

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	MS	39.50	50	79.10	36 - 130	
Acenaphthene	83-32-9	MSD	42.10	50	84.20	36 - 130	RPD 6.23 (Max-30)
Acenaphthylene	208-96-8	MS	41.50	50	82.90	39 - 130	
Acenaphthylene	208-96-8	MSD	44.50	50	89	39 - 130	RPD 7.08 (Max-30)
Anthracene	120-12-7	MS	37.80	50	75.60	48 - 133	
Anthracene	120-12-7	MSD	39.60	50	79.30	48 - 133	RPD 4.80 (Max-30)
Benzo(a)anthracene	56-55-3	MS	36.80	50	73.70	51 - 127	
Benzo(a)anthracene	56-55-3	MSD	39.60	50	79.10	51 - 127	RPD 7.16 (Max-30)
Benzo(a)pyrene	50-32-8	MS	36.80	50	73.60	53 - 127	
Benzo(a)pyrene	50-32-8	MSD	40.10	50	80.20	53 - 127	RPD 8.52 (Max-30)
Benzo(b)fluoranthene	205-99-2	MS	38.50	50	76.90	53 - 131	
Benzo(b)fluoranthene	205-99-2	MSD	41.20	50	82.40	53 - 131	RPD 6.81 (Max-30)
Benzo(g,h,i)perylene	191-24-2	MS	38.70	50	77.50	54 - 131	
Benzo(g,h,i)perylene	191-24-2	MSD	41.90	50	83.80	54 - 131	RPD 7.77 (Max-30)
Benzo(k)fluoranthene	207-08-9	MS	39.20	50	78.50	52 - 130	
Benzo(k)fluoranthene	207-08-9	MSD	42.30	50	84.70	52 - 130	RPD 7.65 (Max-30)
Chrysene	218-01-9	MS	38.30	50	76.60	50 - 131	
Chrysene	218-01-9	MSD	41.30	50	82.60	50 - 131	RPD 7.54 (Max-30)
Dibenzo(a,h)anthracene	53-70-3	MS	40	50	80.10	56 - 130	
Dibenzo(a,h)anthracene	53-70-3	MSD	42.40	50	84.70	56 - 130	RPD 5.67 (Max-30)
Fluoranthene	206-44-0	MS	38.60	50	77.20	49 - 132	
Fluoranthene	206-44-0	MSD	40.90	50	81.90	49 - 132	RPD 5.89 (Max-30)
Fluorene	86-73-7	MS	38	50	76	42 - 131	
Fluorene	86-73-7	MSD	39.90	50	79.80	42 - 131	RPD 4.82 (Max-30)
Indeno(1,2,3-cd)pyrene	193-39-5	MS	39	50	78.10	55 - 126	
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	42	50	84	55 - 126	RPD 7.30 (Max-30)
Naphthalene	91-20-3	MS	35.50	50	71	21 - 123	
Naphthalene	91-20-3	MSD	38.80	50	77.60	21 - 123	RPD 8.89 (Max-30)
Phenanthrene	85-01-8	MS	39.10	50	78.20	46 - 131	
Phenanthrene	85-01-8	MSD	41.80	50	83.60	46 - 131	RPD 6.57 (Max-30)
Pyrene	129-00-0	MS	41.40	50	82.80	48 - 134	
Pyrene	129-00-0	MSD	44.30	50	88.60	48 - 134	RPD 6.69 (Max-30)

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	MS	23.20	50	46.50	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	37.70	50	75.30	24 - 116	
Nitrobenzene-d5	4165-60-0	MS	24.20	50	48.40	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	42.30	50	84.60	32 - 125	
Terphenyl-d14	98904-43-9	MS	9.50	50	19.10	41 - 145	
Terphenyl-d14	98904-43-9	MSD	13	50	25.90	41 - 145	

**Method Blank** 3449667 (MB) Created on 01/20/2022 2:37 PM For QC Batch 814300

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	BLK	10	12.50	80.40	24 - 116	
Nitrobenzene-d5	4165-60-0	BLK	10.70	12.50	85.80	32 - 125	
Terphenyl-d14	98904-43-9	BLK	6.90	12.50	55.10	41 - 145	

**Lab Control Standard** 3449668 (LCS) Created on 01/20/2022 2:37 PM For QC Batch 814300

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Acenaphthene	83-32-9	LCS	11.30	12.50	90.30	36 - 130	
Acenaphthylene	208-96-8	LCS	11.80	12.50	94	39 - 130	
Anthracene	120-12-7	LCS	11.60	12.50	92.80	48 - 133	
Benzo(a)anthracene	56-55-3	LCS	12.10	12.50	96.70	51 - 127	
Benzo(a)pyrene	50-32-8	LCS	12.10	12.50	97.20	53 - 127	
Benzo(b)fluoranthene	205-99-2	LCS	12.50	12.50	100	53 - 131	

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Workorder 3222521

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Benzo(g,h,i)perylene	191-24-2	LCS	13.20	12.50	106	54 - 131	
Benzo(k)fluoranthene	207-08-9	LCS	13	12.50	104	52 - 130	
Chrysene	218-01-9	LCS	12.50	12.50	99.80	50 - 131	
Dibenzo(a,h)anthracene	53-70-3	LCS	13.30	12.50	107	56 - 130	
Fluoranthene	206-44-0	LCS	11.90	12.50	94.90	49 - 132	
Fluorene	86-73-7	LCS	10.90	12.50	87.50	42 - 131	
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	13.10	12.50	105	55 - 126	
Naphthalene	91-20-3	LCS	9.70	12.50	77.80	21 - 123	
Phenanthrene	85-01-8	LCS	11.90	12.50	95	46 - 131	
Pyrene	129-00-0	LCS	12.80	12.50	103	48 - 134	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	LCS	6.20	12.50	49.20	24 - 116	
Nitrobenzene-d5	4165-60-0	LCS	6.60	12.50	52.60	32 - 125	
Terphenyl-d14	98904-43-9	LCS	4	12.50	32.20	41 - 145	

AR 004423



Semi-Volatiles - GC  
SW846 8081B

QC Batch

QC Batch	813623	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8081B
Tech.	AJW		

Matrix Spike 3448570 (MS) Aliquot from 3222512001 For QC Batch 813623

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3448571 (MSD) Aliquot from 3222512001 For QC Batch 813623

RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	MS	0.50	0.47	106	58 - 142	
4,4'-DDD	72-54-8	MSD	0.55	0.48	116	58 - 142	RPD 9.37 (Max-19)
4,4'-DDE	72-55-9	MS	0.42	0.47	88.30	61 - 132	
4,4'-DDE	72-55-9	MSD	0.45	0.48	95	61 - 132	RPD 8.18 (Max-19)
4,4'-DDT	50-29-3	MS	0.25	0.47	52.80	58 - 140	
4,4'-DDT	50-29-3	MSD	0.30	0.48	63.90	58 - 140	RPD 19.90 (Max-21)
Aldrin	309-00-2	MS	0.27	0.47	56.60	45 - 121	
Aldrin	309-00-2	MSD	0.25	0.48	52.70	45 - 121	RPD 6.31 (Max-31)
alpha-Chlordane	5103-71-9	MS	0.40	0.47	85.80	62 - 131	
alpha-Chlordane	5103-71-9	MSD	0.43	0.48	90.70	62 - 131	RPD 6.58 (Max-23)
alpha-HCH (alpha-BHC)	319-84-6	MS	0.44	0.47	93.20	60 - 137	
alpha-HCH (alpha-BHC)	319-84-6	MSD	0.47	0.48	99.50	60 - 137	RPD 7.42 (Max-31)
beta-BHC	319-85-7	MS	0.37	0.47	78	59 - 139	
beta-BHC	319-85-7	MSD	0.39	0.48	82.70	59 - 139	RPD 6.82 (Max-30)
delta-BHC	319-86-8	MS	0.41	0.47	86.90	59 - 141	
delta-BHC	319-86-8	MSD	0.43	0.48	90.50	59 - 141	RPD 5.02 (Max-31)
Dieldrin	60-57-1	MS	0.43	0.47	91.50	61 - 138	
Dieldrin	60-57-1	MSD	0.46	0.48	97.20	61 - 138	RPD 6.90 (Max-23)
Endosulfan I	959-98-8	MS	0.40	0.47	85.30	53 - 128	
Endosulfan I	959-98-8	MSD	0.43	0.48	90.50	53 - 128	RPD 6.83 (Max-29)
Endosulfan II	33213-65-9	MS	0.42	0.47	88.50	57 - 142	
Endosulfan II	33213-65-9	MSD	0.45	0.48	93.90	57 - 142	RPD 6.89 (Max-23)
Endosulfan Sulfate	1031-07-8	MS	0.43	0.47	90.50	36 - 148	
Endosulfan Sulfate	1031-07-8	MSD	0.46	0.48	95.90	36 - 148	RPD 6.70 (Max-25)
Endrin	72-20-8	MS	0.38	0.47	81.40	58 - 143	
Endrin	72-20-8	MSD	0.41	0.48	85.90	58 - 143	RPD 6.27 (Max-28)
Endrin Aldehyde	7421-93-4	MS	0.31	0.47	65.90	23 - 139	
Endrin Aldehyde	7421-93-4	MSD	0.38	0.48	79.30	23 - 139	RPD 19.40 (Max-21)
Endrin Ketone	53494-70-5	MS	0.41	0.47	86.90	51 - 139	
Endrin Ketone	53494-70-5	MSD	0.45	0.48	95.20	51 - 139	RPD 10.10 (Max-20)
gamma-BHC	58-89-9	MS	0.42	0.47	88.70	58 - 138	
gamma-BHC	58-89-9	MSD	0.45	0.48	94.60	58 - 138	RPD 7.35 (Max-30)
gamma-Chlordane	5103-74-2	MS	0.41	0.47	86.10	60 - 129	
gamma-Chlordane	5103-74-2	MSD	0.43	0.48	90.60	60 - 129	RPD 6.08 (Max-23)
Heptachlor	76-44-8	MS	0.24	0.47	49.90	41 - 124	

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Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)			Qualifiers
Heptachlor	76-44-8	MSD	0.23	0.48	47.90	41 - 124	RPD	3.23 (Max-28)	
Heptachlor Epoxide	1024-57-3	MS	0.41	0.47	87.40	62 - 131			
Heptachlor Epoxide	1024-57-3	MSD	0.44	0.48	92.20	62 - 131	RPD	6.27 (Max-27)	
Methoxychlor	72-43-5	MS	0.37	0.47	78.60	56 - 140			
Methoxychlor	72-43-5	MSD	0.43	0.48	90.70	56 - 140	RPD	15.20 (Max-21)	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)		Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.1840	0.4720	39.10	30 - 140		
Decachlorobiphenyl	2051-24-3	MSD	0.2530	0.4760	53.10	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MS	0.1870	0.4720	39.70	30 - 140		
Decachlorobiphenyl.	2051-24-3X	MSD	0.26	0.4760	54.50	30 - 140		
Tetrachloro-m-xylene	877-09-8	MS	0.24	0.47	51.30	30 - 123		
Tetrachloro-m-xylene	877-09-8	MSD	0.27	0.48	56.80	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.47	50.20	30 - 123		
Tetrachloro-m-xylene.	877-09-8X	MSD	0.27	0.48	56.20	30 - 123		

## Method Blank

3448568 (MB)

Created on 01/18/2022 2:31 PM

For QC Batch 813623

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4,4'-DDD	72-54-8	BLK	ND	ug/L	0.020	ND
4,4'-DDE	72-55-9	BLK	ND	ug/L	0.020	ND
4,4'-DDT	50-29-3	BLK	ND	ug/L	0.020	ND
Aldrin	309-00-2	BLK	ND	ug/L	0.020	ND
alpha-Chlordane	5103-71-9	BLK	ND	ug/L	0.020	ND
alpha-HCH (alpha-BHC)	319-84-6	BLK	ND	ug/L	0.020	ND
beta-BHC	319-85-7	BLK	ND	ug/L	0.020	ND
delta-BHC	319-86-8	BLK	ND	ug/L	0.020	ND
Dieldrin	60-57-1	BLK	ND	ug/L	0.020	ND
Endosulfan I	959-98-8	BLK	ND	ug/L	0.020	ND
Endosulfan II	33213-65-9	BLK	ND	ug/L	0.020	ND
Endosulfan Sulfate	1031-07-8	BLK	ND	ug/L	0.020	ND
Endrin	72-20-8	BLK	ND	ug/L	0.020	ND
Endrin Aldehyde	7421-93-4	BLK	ND	ug/L	0.020	ND
Endrin Ketone	53494-70-5	BLK	ND	ug/L	0.020	ND
gamma-BHC	58-89-9	BLK	ND	ug/L	0.020	ND
gamma-Chlordane	5103-74-2	BLK	ND	ug/L	0.020	ND
Heptachlor	76-44-8	BLK	ND	ug/L	0.020	ND
Heptachlor Epoxide	1024-57-3	BLK	ND	ug/L	0.020	ND
Methoxychlor	72-43-5	BLK	ND	ug/L	0.020	ND
Toxaphene	8001-35-2	BLK	ND	ug/L	1.0	ND

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Workorder 3222521

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.37	0.50	73.90	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK	0.3660	0.50	73.10	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.32	0.50	63.30	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	BLK	0.29	0.50	57.60	30 - 123	

**Lab Control Standard** 3448569 (LCS) Created on 01/18/2022 2:31 PM For QC Batch 813623

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4,4'-DDD	72-54-8	LCS	0.61	0.50	121	58 - 142	
4,4'-DDE	72-55-9	LCS	0.54	0.50	107	61 - 132	
4,4'-DDT	50-29-3	LCS	0.36	0.50	71.50	58 - 140	
Aldrin	309-00-2	LCS	0.37	0.50	73.90	45 - 121	
alpha-Chlordane	5103-71-9	LCS	0.51	0.50	101	62 - 131	
alpha-HCH (alpha-BHC)	319-84-6	LCS	0.54	0.50	107	60 - 137	
beta-BHC	319-85-7	LCS	0.45	0.50	89.20	59 - 139	
delta-BHC	319-86-8	LCS	0.50	0.50	100	59 - 141	
Dieldrin	60-57-1	LCS	0.54	0.50	107	61 - 138	
Endosulfan I	959-98-8	LCS	0.50	0.50	100	53 - 128	
Endosulfan II	33213-65-9	LCS	0.52	0.50	103	57 - 142	
Endosulfan Sulfate	1031-07-8	LCS	0.53	0.50	106	36 - 148	
Endrin	72-20-8	LCS	0.48	0.50	96.30	58 - 143	
Endrin Aldehyde	7421-93-4	LCS	0.37	0.50	74.60	23 - 139	
Endrin Ketone	53494-70-5	LCS	0.52	0.50	105	51 - 139	
gamma-BHC	58-89-9	LCS	0.52	0.50	103	58 - 138	
gamma-Chlordane	5103-74-2	LCS	0.51	0.50	101	60 - 129	
Heptachlor	76-44-8	LCS	0.32	0.50	64.20	41 - 124	
Heptachlor Epoxide	1024-57-3	LCS	0.51	0.50	102	62 - 131	
Methoxychlor	72-43-5	LCS	0.48	0.50	96.10	56 - 140	

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.3380	0.50	67.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.3390	0.50	67.80	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.32	0.50	63.60	30 - 123	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.30	0.50	60.10	30 - 123	

## Semi-Volatiles - GC SW846 8082A

### QC Batch

QC Batch	813625	Prep Method	SW846 3511
Date	01/18/2022 4:50 PM	Analysis Method	SW846 8082A
Tech.	AJW		

AR 004426

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1/25/2022 1:37 PM

29 of 33



Project 2022-Caneel Bay Resort, Virgin  
Workorder 3222521

**Matrix Spike** 3448579 (MS) Aliquot from 3222512001 For QC Batch 813625

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3448580 (MSD) Aliquot from 3222512001 For QC Batch 813625

## RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	3.90	4.90	79.80	43 - 132	
Aroclor-1016	12674-11-2	MSD	2.70	4.80	56.70	43 - 132	RPD 35.60 (Max-40)
Aroclor-1260	11096-82-5	MS	4.70	4.90	97.70	43 - 132	
Aroclor-1260	11096-82-5	MSD	4.30	4.80	90.60	43 - 132	RPD 9.43 (Max-40)

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.21	0.49	44	30 - 140	
Decachlorobiphenyl	2051-24-3	MSD	0.20	0.48	42.20	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MS	0.21	0.49	43.60	30 - 140	
Decachlorobiphenyl.	2051-24-3X	MSD	0.20	0.48	42	30 - 140	
Tetrachloro-m-xylene	877-09-8	MS	0.29	0.49	58.80	30 - 133	
Tetrachloro-m-xylene	877-09-8	MSD	0.18	0.48	38.50	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MS	0.24	0.49	50.40	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	MSD	0.15	0.48	31.10	30 - 133	

**Method Blank** 3448577 (MB) Created on 01/18/2022 2:39 PM For QC Batch 813625

## RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	ug/L	0.50	ND
Aroclor-1221	11104-28-2	BLK	ND	ug/L	0.50	ND
Aroclor-1232	11141-16-5	BLK	ND	ug/L	0.50	ND
Aroclor-1242	53469-21-9	BLK	ND	ug/L	0.50	ND
Aroclor-1248	12672-29-6	BLK	ND	ug/L	0.50	ND
Aroclor-1254	11097-69-1	BLK	ND	ug/L	0.50	ND
Aroclor-1260	11096-82-5	BLK	ND	ug/L	0.50	ND
Aroclor-1262	37324-23-5	BLK	ND	ug/L	0.50	ND
Aroclor-1268	11100-14-4	BLK	ND	ug/L	0.50	ND

## SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.33	0.50	66.30	30 - 140	
Decachlorobiphenyl.	2051-24-3X	BLK	0.33	0.50	65.50	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.33	0.50	65.60	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	BLK	0.30	0.50	59.20	30 - 133	

**Lab Control Standard** 3448578 (LCS) Created on 01/18/2022 2:39 PM For QC Batch 813625

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RESULTS

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	5	5	99.10	43 - 132	
Aroclor-1260	11096-82-5	LCS	4.90	5	97.10	43 - 132	

SURROGATES

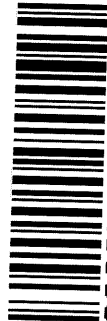
Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.31	0.50	61.50	30 - 140	
Decachlorobiphenyl.	2051-24-3X	LCS	0.31	0.50	62.40	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.34	0.50	68.70	30 - 133	
Tetrachloro-m-xylene.	877-09-8X	LCS	0.32	0.50	63.60	30 - 133	



301 Filling Mill Road  
Middletown, PA 17057  
P: 717-944-5541  
F: 717-944-1430

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.



3222521

COC  
ALS

Client Name: VHB		Container Type	C	AN	AN	P	
Address: 100 State Street, Suite 600, Montpelier, VT 05602		Container Size	40mL	1L	125mL	125mL	
Contact: Ben Deede		Permeable	HCL	NA	NA	HNO3	
Phone#: 401-447-8254		ANALYSES/METHOD REQUESTED					
Project Name#: Caneel Bay USVI		Project Comments:					
Bill To: VHB, Montpelier, VT		Purchase Order #:					
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		W.O. Temp: 1.0 Therm ID: 575					
Date Required: Email? <input checked="" type="checkbox"/> -Y bdeede@vvhb.com, rkay@vvhb.com Fax? <input type="checkbox"/> -Y No:		Courier/Tracking #:					
Sample Description/Location (as it will appear on the lab report)		Project Comments:					
1	MW-2-21	Date Collected mm/dd/yy	1/13/22	Time hh:mm	0900	Matrix	
2	MW-2-22	Date Collected mm/dd/yy	1/13/22	Time hh:mm	1010	Matrix	
3	MW-104	Date Collected mm/dd/yy	1/13/22	Time hh:mm	1200	Matrix	
4		Date Collected mm/dd/yy		Time hh:mm		Matrix	
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Relinquished By / Company Name		Date	Time	Received By / Company Name			



**Sender's address:**

VHB, Inc.  
100 State St, Suite 600,  
Montpelier, VT 05602

**Receiver's address:**

ALS Environmental  
301 Fulling Mill Rd  
Middletown, PA 17057

Re: Contents in the package

To whomever it may concern,

VHB is an engineering consulting firm that is conducting research on the behalf of National Park Service (NPS) at Caneel Bay Resort at the Virgin Islands National Park, St. John, US Virgin Islands. The project involves collecting groundwater samples at the resort that are being shipped to a laboratory in Middletown, Pennsylvania.

The package contains groundwater samples enclosed in tightly sealed glass/plastic bottles. The package also contains bagged ice to maintain the temperature of the samples.

These groundwater samples will be sent to the laboratory for chemical analysis to determine the concentration of contaminants in the groundwater.

**The samples must arrive at the laboratory within 1 week of sampling or the data will be compromised.**

If you have further questions, please contact the VHB Project Manager, Rhonda Kay, PE at (802) 778-1277 or rkay@vhb.com. Thank you for your cooperation.

Sincerely,

VHB

Rhonda Kay  
Senior Engineer



## **Attachment B-4 - Field Activities Report**



# **NPS Engineering Evaluation/ Cost Analysis Field Activities Report**

**Virgin Islands National Park**

**Caneel Bay Resort Site  
St. John, USVI  
EDL Number 5SER3346**

Prepared by



December 13, 2021





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- Table 2      Summary of Environmental Samples

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- Appendix 3    Calibration Sheets



## List of Abbreviations and Acronyms

ACM	asbestos-containing materials
AST	aboveground storage tank
bgs	below ground surface
CBIA	CBI Acquisitions, LLC (CBIA)
COC	contaminant of concern
DU	decision unit
EE/CA	Engineering Evaluation/Cost Analysis
EHI	EHI Acquisitions, LLC
EMI	electromagnetic induction
ft	foot or feet
GPR	ground penetrating radar
IDW	investigation-derived waste
ISM	Incremental Sampling Methodology
NPS	National Park Service
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCOPC	preliminary contaminant of potential concern
PID	photoionization detector
PPL	Priority Pollutant List
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
UST	underground storage tank
VIIS	Virgin Islands National Park
VOC	volatile organic compound



## 1 Introduction

This document serves as the Field Activities Report for Engineering Evaluation/Cost Analysis (EE/CA) Addendum field investigation activities at the Caneel Bay Resort Site (Resort), located within the National Park Service (NPS) Virgin Islands National Park (VIIS). This field investigation was conducted in November 2021 to fill data gaps identified in the EE/CA, dated September 16, 2021.

The Resort includes the entire 150 acres currently operated by EHI Acquisitions, LLC (EHI) and CBI Acquisitions, LLC (CBIA) pursuant to a Retained Use Estate Indenture Agreement (RUE). The prior EE/CA investigation focused on approximately 8 acres in three portions of the Resort, designated as:

- Area 1: a storage area on a gravel pad near the wastewater treatment plant
- Area 2: a support area for the Resort, encompassing the engineering, maintenance, landscaping, generator, and fuel facilities, located southwest of Area 1
- Area 3: an un-permitted landfill immediately east of Honeymoon Beach

The Site boundaries, previously defined to include Areas 1, 2, and 3, were expanded since the initial EE/CA investigation, as described in the Sampling and Analysis Plan (SAP) Addendum. The areas added to the Site include:

- building materials and debris located around the Resort that potentially contain asbestos and lead-based paint
- buried asbestos pipes
- Cottage 7
- a reported storage/disposal area near the surface water Catchment Basin on the hillside above the Resort buildings

The preliminary contaminants of potential concern (PCOPCs) for these investigation activities are listed below along with the media of interest.

- Asbestos (building materials, debris from the hurricanes and demolition, and piping)
- Lead (building coatings, subsurface soil and groundwater near ASTs in Area 2 and downgradient of Area 2, subsurface soil near the underground storage tank (UST) at Cottage 7)
- Arsenic (background surface soil, potential clean fill source, and groundwater downgradient of Area 2)
- Barium (groundwater downgradient of Area 2, a deviation from the SAP Addendum – see Section 3)
- Volatile organic compounds (VOCs) (subsurface soil and groundwater near ASTs in Area 2, near possible waste storage in Area 1, and near the UST at Cottage 7)



- Polycyclic aromatic hydrocarbons (PAHs) (subsurface soil and groundwater near ASTs in Area 2, subsurface soil near possible waste storage in Area 1, subsurface soil near the UST at Cottage 7)
- Resource Conservation and Recovery Act (RCRA) 8 and 13 Priority Pollutant List (PPL) Metals (subsurface soil near possible waste storage in Area 1)
- Polychlorinated biphenyls (PCBs) (subsurface soil near possible waste storage in Area 1)
- Organochlorine pesticides (subsurface soil near possible waste storage in Area 1, surface soil in Catchment Basin area, and groundwater downgradient of Area 2, a deviation from the SAP Addendum – see Section 3)

The purpose of this field investigation was to provide sufficient data of adequate quality to complete an EE/CA addendum to decide if response actions are needed to address unacceptable risks at the Site and, if warranted, identify a recommended removal action alternative for the Site. NPS will use data collected during this field investigation to decide if removal actions are needed to address unacceptable risks at the Site. This field investigation was designed to answer the Principal Decision Questions and Estimation Questions enumerated in Section 2, below.

VHB completed the EE/CA addendum field investigation described herein in November of 2021 under contract to NPS (Contract 140P2021D0003; Call Order No. 140P5421F0074). Resampling may be conducted in January because some groundwater samples were delayed during shipping, as detailed in Section 3.

## 2 Summary of Completed Field Activities

Field work at the Site commenced on November 8, 2021 and was completed on November 19, 2021. The following staff were present for all or part of the field work; a list of activities on each day is provided in Table 1.

- Ben Deede, VHB – Field Manager
- Ben Bliss, VHB – VHB field staff responsible for soil logging and groundwater sampling
- Jason Hooper, VHB – VHB field staff responsible for asbestos and lead paint sampling
- Tom Halter, VHB – VHB field staff responsible for asbestos and lead paint sampling
- Shawn Mulligan, Environmental Compliance and Cleanup Division - NPS Representative
- Stephen Mitchell, Environmental Compliance and Cleanup Division – NPS Representative
- Jeff Lambert – Caneel Bay Resort Representative
- Griffith Henderson – Caneel Bay Resort Representative
- Javier J. Bidot Associates, PSC (Bidot) – Ground penetrating radar (GPR) and utility locating surveyors
- On-Site Environmental (On-Site) – Environmental drillers certified in the USVI and heavy equipment operators



Field work is itemized according to the related Decision and Estimation Questions, by issue, as presented in Table 1 of the Sampling and Analysis Plan. In some cases, field conditions required VHB to deviate from the SAP. Deviations related to each element of the investigation are included in the summary below.

## 2.1 Uncertain Items

- Estimation Question 1.1: Where is asbestos-containing material present and exposed to the environment?
  - From previously identified asbestos or possible-asbestos pipe locations around the Resort, Bidot used ground penetrating radar (GPR) with visual confirmation, when possible, to map piping to the extent possible.
    - Bidot mapped a network of possible rainwater collection underground piping through Area 2, which included the previously confirmed asbestos pipe. With two exceptions, the network was traced to observable dead ends. In one area, the underground piping continued beneath an active water cistern and could not be traced farther. The network appeared to drain to a partially buried cistern; however, as the cistern was flooded, it was not possible to visually confirm the end of the pipe network. VHB collected samples of some of the accessible piping to confirm its composition.
    - Bidot mapped an aboveground pipe suspected to contain asbestos from Area 3 through a wooded area to where it appeared to go underground and was no longer visible east of Little Caneel Beach. Due to the densely vegetated and rocky terrain, GPR was not possible at the location where the pipe went underground. Bidot and On-Site attempted to locate the pipe by GPR and trenching in the cleared area where it was estimated to be headed. VHB collected a sample of the piping for analysis of asbestos.
    - Bidot and On-Site investigated previously identified suspect asbestos pipe in Areas 1 and 2. These pipes were found to be only short sections not connected to networks of similar piping material. The pipe in Area 2 was being used to protect/identify a subsurface valve and was replaced following the investigation. VHB collected a sample of the piping for analysis of asbestos.
    - VHB and Bidot performed reconnaissance of other Resort Areas, from Turtle Bay to Little Caneel Beach, to identify evidence of other possible asbestos piping. Bidot and On-Site investigated possible asbestos sewer piping observed in a manhole near Scott Beach and were able to trace it north towards Turtle Bay using GPR. The piping could not be traced to the south. VHB collected samples of two different piping materials observed within this network for analysis of asbestos.
    - Bidot and On-Site also investigated suspected asbestos sewer piping observed near Cottage 7. This piping was approximately traced, by lining up





manholes, north towards Scott Beach. As the piping was flooded and at depth (10-12 feet (ft) below ground surface (bgs)), it could not be sampled or traced using GPR. There was no observable evidence to connect the piping at Cottage 7 to the piping at Scott Beach.

- VHB collected 46 samples of possible asbestos-containing material (ACM) from Estate restaurant, Estate house, Estate event room, Turtle Bay, and Hawksnest. VHB collected another 64 bulk asbestos samples from Caneel Beach, the Main Building, and Cottage Point. VHB collected 65 bulk asbestos samples from Little Caneel Bay and 19 samples from buildings in Area 2, Little Caneel beach, and the Tennis pro shop. Two soil samples were collected from Scott Beach, for a total of 244 asbestos samples collected as a part of this investigation. VHB shipped all ACM samples to EMSL for analysis. Sampling locations are shown on Figure 2.
- Estimation Question 1.2: Where is lead-based paint present and exposed to the environment?
  - Sample paint chips were collected from buildings and debris at the Estate Restaurant, Turtle Bay and Caneel Beach. VHB collected thirteen lead paint chip samples, L-09 through L-21. These were sent to EMSL for lead analysis. Sampling locations are shown on Figure 2.
- Decision Question 1.1: Is a UST present outside Cottage 7?
  - Bidot traced fuels lines previously identified in the basement of Cottage 7 using electromagnetic induction (EMI). An inconsistent signal was traced from the basement leading around the northern and eastern sides of Cottage 7. On-Site excavated periodically along the marked line and discovered a 3-foot diameter, horizontal, steel UST to the east of and beneath the air conditioning units at Cottage 7 and possible remote fill port piping leading the east side of Cottage 7. The top of the tank had rusted out and the tank was empty. As the tank is mostly beneath the concrete pad supporting the air conditioning units, it was not possible to excavate to expose the sides of the UST. Evidence of soil contamination was not observed at the locations excavated.
- Decision Question 1.2: Does the buried item near the Catchment Basin present a threat of release of hazardous substances or petroleum?
  - CBIA staff cleared vegetation from the catchment basin area to provide access for equipment and additional investigation. Bidot returned to the previously identified anomaly and investigated the southern portion of the Catchment Basin area, which was previously inaccessible due to dense vegetation. Bidot did not identify additional anomalies or evidence of buried items. On-Site excavated the anomaly at the lower Catchment Basin area and uncovered unfinished concrete at approximately 1 ft bgs. Based on visual observations, the concrete did not appear to be a constructed feature, and may have been dumped or washed out of trucks as part of the concrete catchment basin placement. The excavation was extended to one side where the edge of concrete met apparent bedrock. VHB did not observe visual, olfactory, or



photoionization detector (PID) evidence of contamination within the excavation or on the concrete's surface.

- Decision Question 1.3: Are the water supply wells present, operational, and accessible for sampling?
  - Based on information provided by Resort staff, VHB located one alleged former water supply well to east of Area 2 and two dug wells to the west of Area 2. The former water supply well had been closed by filling the casing with grout and could therefore not be sampled. Both dug wells were cased with stone, open to the air, and contained water. These wells do not appear to be in current use, but were accessible for sampling.

## 2.2 Residual AST and UST Contamination

- Estimation Question 2.1: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near Cottage 7?
  - Three soil borings, SC-C7-1 through SC-C7-3, were advanced to refusal in the assumed down-gradient direction from the Cottage 7 UST. VHB did not observe visual, olfactory, or PID evidence of petroleum contamination in soil cores or excavations at Cottage 7. VHB collected discrete soil samples from each boring at an interval of 5 ft to 6.6 ft bgs and submitted samples to ALS Middletown for VOC, PAH, and lead analysis.
- Estimation Question 2.2: What is the extent of PCOPCs (VOCs and PAHs) in subsurface soil near the AST and fuel dispenser pump in Area 2?
  - VHB advanced 17 borings, SC-2-06 through SC-2-22, to drill rig refusal near the former aboveground storage tanks (ASTs) and fuel dispenser pump. Based on the Site geology, drill rig refusal occurred at the interface of soil and underlying bedrock. Before drilling started, Bidot located and marked buried utilities in the AST area. Boring locations were chosen to investigate assumed-downgradient directions, possible preferential migration pathways (e.g. utility trenches and concrete pad bedding), and to provide areal coverage. Except for one boring (SC-2-18, located southeast of the former ASTs near the generator building entrance), all borings were in a grid covering approximately 0.25 acre. Olfactory and PID evidence of petroleum contamination was observed at borings advanced in the vicinity and downgradient of the fuel dispenser, along buried fuel piping and utility trenches, adjacent to the generator building floor slab, and adjacent to the AST tank slabs. Evidence of contamination was consistently observed in the soil column above bedrock in borings SC-2-10, SC-2-11, SC-2-12, and SC-2-14, which are adjacent to fuel piping, AST pads, utility trenches, and the generator building (see Figure 1). Observable evidence of contamination was delineated to the northeast and east by borings SC-2-08 and SC-2-18, to the west by SC-2-13 and SC-2-16, and to the northwest, down the roadway utility trench, by SC-2-19 and SC-2-20. VHB collected discrete soil samples from all Area 2 borings and sent the samples packed in coolers with ice to



ALS Middletown to be analyzed for VOCs, PAHs, and lead. The samples are listed in Table 2.

- Decision Question 2.1: Do concentrations of PCOPCs related to the UST at Cottage 7 pose a risk to human health or the environment?
  - See Estimation Question 2.1.
- Decision Question 2.2: Do concentrations of preliminary contaminants of potential concern (PCOPCs) related to the AST and fuel dispenser pump in Area 2 [soil] pose a risk to human health or the environment?
  - See Estimation Question 2.2.

## 2.3 Arsenic Background and Clean Fill Values

- Estimation Question 3.1: What is a representative background arsenic concentration in Site surface soil?
  - VHB collected two Incremental Sampling Methodology (ISM) reference replicates to estimate a representative Site background arsenic in soil concentrations. Samples IA-REF-03 A, B, and C were collected from an approximately 0.25-acre grassy area between Turtle bay and Scott Beach. Samples IA-Ref-04 A, B, and C were collected from an approximately 0.25-acre wooded and grassy area to the east of Cottage Point. VHB sent the surface soil samples collected from each reference decision unit (DU) to ALS Middletown to be analyzed for arsenic.
- Decision Question 3.1: Are arsenic concentrations in the identified clean fill source less than or equal to Site surface soil background concentrations and acceptable risk-based concentrations?
  - VIIS identified two potential clean fill sources for this investigation: Sleepy's Trucking and Paris Trucking. VHB contacted Sleepy's Trucking, which agreed to allow VHB to sample their clean topsoil. VHB collected surface soil samples by ISM from a soil stockpile at Sleepy's Trucking on St. Thomas, which was within an apparent maintenance yard and was estimated to contain less than 100 cubic yards of soil. Samples were submitted to ALS Middletown for arsenic analysis. The Sleepy's Trucking employees present were unable to answer questions about the soil's source and available volume. VHB also contacted Paris Trucking, but the owner stated that they only supplied crushed quarry rock.

## 2.4 Possible Migration of Contaminants in Groundwater

- Decision Question 4.1: Is sufficient groundwater present in soil above bedrock to collect samples in the wet season?
  - Cottage 7: On-Site installed a temporary piezometer at SC-C7-01, which was dry when VHB checked it the following day. No monitoring wells were installed at Cottage 7 and no groundwater samples were collected.



- Area 1: On-Site installed a temporary piezometer at SC-1-01, which was dry when VHB checked it the following day. Drilling refusal, presumably on bedrock was encountered in borings SC-1-02 and SC-2-03 at around 4 ft bgs and no temporary piezometers were installed at these locations as saturated soils were not observed in the soil column. No monitoring wells were installed at Area 1 and no groundwater samples were collected.
- Area 2: On-Site installed temporary piezometers at soil borings SC-2-06, SC-2-07, and SC-2-09 using 1-inch diameter PVC riser pipe. VHB observed groundwater at all three piezometers the following day and On-Site installed monitoring wells at each boring location (MW-2-06, MW-2-07, and MW-2-09, respectively). Based on the observation of groundwater at Dug Wells 1 and 2 to the west and downgradient of Area 2, On-Site installed monitoring wells MW-2-21 and MW-2-22 in the vicinity of the former gift shop. VHB developed and collected groundwater samples from the five installed wells and Dug Wells 1 and 2. Due to slow recharge at MW-2-06, low-flow sampling could not be performed, and a grab sample was collected from this well after recharge.
- Area 3: VHB checked the previously installed monitoring well in Area 3, MW-3-01, for groundwater and found it to be dry. Therefore, a groundwater sample was not collected from this location.
- Decision Question 4.2: Are concentrations of PCOPCs (metals, PCBs, and pesticides) present in Site groundwater at the landfill at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?
  - As stated in Decision Question 4.1, MW-3-01 was dry and VHB was unable to collect samples to assess groundwater quality in Area 3 groundwater.
- Decision Question 4.3: Are concentrations of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Cottage 7 UST and Area 2 AST and fuel dispenser pump at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?
  - Cottage 7: As stated in Decision Question 4.1, groundwater was not present above refusal at Cottage 7.
  - Area 2: VHB observed evidence of contamination in soil cores above and below the water table at boring locations immediately downgradient of the Area 2 ASTs. VHB submitted the groundwater samples from MW-2-06, MW-2-07, and MW-2-09 to ALS Middletown to be analyzed for the AST release PCOPCs (lead, VOCs, PAHs). Evidence of contamination was not noted in soil borings installed farther downgradient of Area 2, MW-2-21 and MW-2-22.

Additional wells, MW-2-21 and MW-2-22 were installed downgradient of Area 2. VHB sampled these wells and Dug Wells 1 and 2. Groundwater samples were shipped to ALS Middletown to be analyzed for the Area 2 contaminants of concern (COCs) and PCOPCs (VOCs, PAHs, lead, pesticides, arsenic, and barium).



As detailed in Section 3, all groundwater samples were delayed during shipping and all of the samples exceeded standard hold times for all analytes except metals.

- Decision Question 4.4: Are concentrations of PCOPCs (VOCs, PAHs, metals, and pesticides) present in water supply groundwater at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?
  - VHB a deep water supply well identified by CBIA, but the well was filled with grout and not operational. Although VHB collected samples from the two dug wells near the former gift shop, it does not appear these wells are used regularly or as the emergency backup for the reverse osmosis plant.
- Decision Question 4.5: Are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in Site groundwater downgradient of the waste storage at Area 1 at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?
  - As stated in Decision Question 4.1, groundwater was not present above refusal at Area 1.
- Estimation Question 4.1: What is the extent of PCOPCs (VOCs, PAHs, and metals) present in Site groundwater downgradient of the Area 2 AST and fuel dispenser pump?
  - Samples collected to answer this question are listed in Decision Question 4.3.

## 2.5 Possible Waste Storage at the Catchment Basin and Area 1

- Decision Question 5.1: Do concentrations of pesticides present in surface soil near the Catchment Basin exceed Site Removal Goals established by the EE/CA?
  - VHB mapped out the ISM DUs in the lower Catchment basin area, splitting the area into a northern DU and a southern DU. VHB collected three surface soil ISM replicates from each DU and sent samples to ALS Middletown for organochlorine pesticide analysis.
- Decision Question 5.2: If there is evidence of contamination at the catchment basin buried item, are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil at concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?
  - VHB did not observe visual, olfactory, or PID evidence of contamination, a release, or the potential for a release in the soil surrounding the buried concrete (described in the discussion for Decision Question 1.2).
- Decision Question 5.3: Are concentrations of PCOPCs (VOCs, PAHs, PCBs, metals, and pesticides) present in subsurface soil downgradient of the waste storage at Area 1 at





concentrations that pose an unacceptable potential for risk to human and/or ecological receptors?

- On-Site advanced three soil borings to the west and below the gravel pad to refusal in Area 1. SC-1-01 was refused at 17 ft, while SC-1-02 and SC-1-03 were refused on bedrock at around 4 ft bgs. VHB did not observe visual, olfactory or PID evidence of contamination in the three soil cores. Discrete soil samples were collected from each core and shipped to ALS Middletown for VOC, PAHs, metals, pesticides, and PCBs analysis.

The locations of discrete soil samples, the ISM decision units, and the monitoring wells are presented on Figure 1.

VHB sent all samples by Federal Express to the analytical laboratories. Asbestos and lead paint samples were shipped to EMSL of Cinnaminson, New Jersey. ISM soil and discrete soil, groundwater, and investigation-derived waste (IDW) samples were shipped to ALS Middletown. All groundwater samples, as well as the clean fill source ISM samples, and the IDW samples were delayed at customs.

Table 2 includes a list of the samples collected and submitted for laboratory analysis. Validated analytical data are expected in early 2022.

The contents of the appendices to this report are as follows:

- Appendix 1: completed field forms and notes
- Appendix 2: daily reports generated during field activities
- Appendix 3: field instrument calibration sheets

### 3 Documenting Deviations from the SAP

Two significant deviations from the SAP occurred during and after the field investigation.

#### 3.1 Additional Groundwater Samples Downgradient of Area 2

Identification of the two dug wells during the field work indicated potential year-round groundwater at the Site. These wells are to the west of and appear to be downgradient of all of Area. Although the dug wells contained groundwater, the wells are cased with stone and open to the air and are therefore potentially subject to attenuation processes and contamination by surface runoff and atmospheric deposition. Therefore, contaminant concentrations within the wells may not be representative of the surrounding groundwater. Because these wells are downgradient of Area 2 and could provide information relevant to Decision Questions 4.3 (related to groundwater downgradient of Area 2 AST and fuel dispenser) and 4.4 (related to groundwater at water supply wells), VHB installed and developed two monitoring wells, MW-2-21 and MW-2-22, near the dug wells. VHB collected groundwater samples from Dug Well 1, Dug Well 2, MW-2-21, and MW-2-22. Because the wells also appear to be downgradient of Area 2, where COCs included pesticides, arsenic, and barium, NPS expanded the groundwater analyte



list to include these COCs. Groundwater samples were sent to ALS Middletown to be analyzed for all of the Area 2 COCs and PCOPCs: VOCs, lead, PAHs, barium, arsenic, and pesticides.

### 3.2 Analytical Changes Caused by Shipping Delay

A shipping and customs delay affected all groundwater samples, as well as the IDW samples and the clean fill ISM sample. These samples were shipped in six coolers on November 19, 2021. Although two of the coolers arrived on November 23, the laboratory did not begin logging the samples because they were waiting for the shipment to be complete. Federal Express reported that the other coolers were delayed by Customs. Two coolers were delivered on December 7, and two coolers were delivered on December 9, 2021. As identified in Table 8 of the SAP, the holding times for the affected samples are:

- VOCs in groundwater: 14 days
- PAHs in groundwater: 7 days
- Pesticides in groundwater: 7 days
- Metals in groundwater: 180 days
- TCLP VOCs: 14 days
- TCLP Metals and Pesticides: None
- Metals in soil: 180 days

NPS anticipates that groundwater will be present in Dug Wells 1 and 2, and in the nearby monitoring wells MW-2-21 and MW-2-22, throughout the year. Therefore, resampling these wells in the dry season is likely to be possible. During the initial EE/CA investigation in February of 2021 (in the dry season), no evidence of groundwater was observed near the AST release area, and it is possible that new wells MW-2-06, MW-2-07, and MW-2-09 may not yield enough water for a sample. Therefore, NPS chose to proceed with analysis of the following groundwater samples, with the understanding that some of the data may be flagged as estimated because holding times and some of the SAP's temperature limits were exceeded:

- MW-2-06, MW-2-07, and MW-2-09: VOCs, PAHs, and lead
- MW-2-21, MW-2-22, Dug Well 1, and Dug Well 2: lead, arsenic, and barium

NPS is considering resampling groundwater to collect data that will meet the quality control parameters established in the SAP.

NPS will analyze the IDW-Soil and IDW-Water TCLP samples because the waste has been stored outside in drums, and the analytical results will be representative of the stored waste even if holding times have been exceeded.

NPS will analyze the delayed surface soil ISM sample (IA-Ref-05) because the only analyte is arsenic, and the hold time for metals was not exceeded.

## 4 Status of IDW Storage and Disposition

VHB and On-Site Environmental collected IDW generated during field activities in 55-gallon steel drums. Two water drums and five soil drums were staged in the maintenance area. The



drums were labeled, and VHB collected IDW water and IDW soil samples, which were composites of the two water drums and five soil drums respectively. VHB submitted IDW soil and water samples to ALS Middletown for waste characterization. On-Site will dispose of the IDW at an appropriate facility upon receipt of the analytical results.

On November 16, 2021 a hydraulic line on On-Site's drill rig failed. On-Site found a replacement hose repaired the rig. Soil stained by hydraulic oil was removed and containerized for disposal by On-Site.



## Figures





- Building (approximate)
- Monitoring Well
- Dug Well
- Soil Boring
- Revised ISM DUs

Caneel Bay Resort Site

VIIS, St. John, USVI

Source Info:  
Base map from ESRI/World Imagery (2017)

November 2021 Soil and  
Groundwater Samples





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- Building (approximate)
- Asbestos Sample
- Lead Sample

Caneel Bay Resort Site

VIIS, St. John, USVI

Source Info:  
Base map from ESRI/World Imagery (2017)

November Lead and Asbestos Sample Locations





## Tables



**Table 1. Field Activities Summary**

<b>Date</b>	<b>VHB</b>	<b>NPS</b>	<b>CBIA</b>	<b>Javier J. Bidot Assoc.</b>	<b>On-Site Environmental</b>
11/8/21	General Site recon including Area 3, Area 2, Area 1, Cottage 7, Catchment Basin, wastewater treatment plant, and dug wells.	Shawn Mulligan	Jeff Lambert, Griffith Henderson	Located/marked utilities in AST area within Area 2 for drilling activities.	The AST area was cleared by CBIA and On-Site Environmental.
11/9/21	Inspected former supply well, collected discrete soil samples from Area 2 borings, installed temporary piezometer in boring SC-2-06.	Shawn Mulligan	Jeff Lambert, Griffith Henderson,	Located utilities in Area 1 and near Cottage 7 for drilling activities. Attempted scan for a possible UST near exposed steel piping	Cleared drilling areas in Area 1 and gravel pad for GPR. Attempted to uncover the line at one location but could not identify it. Completed boring SC-2-06 in Area 2. CBIA began clearing a way to the catchment basin and eastern supply well.
11/10/21	Examined piezometers and collected discrete samples from borings in Area 2, Investigated UST at Cottage 7	None	Jeff Lambert, Griffith Henderson	Located utilities in Area, scanned for buried items and observed none. Began tracing asbestos pipe in Area 2 with On-Site and CBIA. Search limited by flooded vaults to the west.	Dug along marked out fuel line at Cottage 7, located 3 ft diameter UST. CBIA cleared Catchment Basin area.



Date	VHB	NPS	CBIA	Javier J. Bidot Assoc.	On-Site Environmental
11/11/21	Collected discrete soil samples from boring in Area 2. Measured groundwater depth to water at designated borings. Inspected soil cores and possible asbestos pipe.	Shawn Mulligan	Griffith Henderson	Began surveying for asbestos pipes in Area 3.	(With Bidot) Investigated and uncovered two possible asbestos pipes in Area 1. Continued clearing and tracing in Area 2. Discovered exposed asbestos pipe, replaced it on the valve, and reburied it.
11/12/21	Collected discrete soil samples from Area 2 and Cottage 7. Asbestos pipe recon of Turtle Bay, Hawksnest, and Scott Beach. Mapped out ISM DUs at the lower Catchment Basin. Shipped 4 coolers to ALS Middletown.	None	Griffith Henderson	Continued tracing underground asbestos pipe network in Area 2. Traced aboveground asbestos pipe in Area 3 to east of Little Caneel Beach.	Advanced borings SC-C7-01 – SC-C7-03 and installed a temporary piezometer in SC-C7-01. Continued tracing asbestos pipe in Area 2. Advanced SC-2-19 and SC-2-20 in Area 2.
11/13/21	Completed ISM surface soil sampling for pesticides at the Catchment Basin. A ¼ acre area between Turtle bay and Scott Beach was collected using ISM as reference (Arsenic). Measured groundwater at wells in Area 2 and dug wells.	None	Griffith Henderson	Marked out GPR anomaly for excavation and further scanned the lower catchment basin. Completed tracing of asbestos pipes in Area 2. Surveyed wells, borings, and tanks in Cottage 7 and Area 2.	None



Date	VHB	NPS	CBIA	Javier J. Bidot Assoc.	On-Site Environmental
11/14/21	None	None	None	None	None
11/15/21	Collected possible asbestos pipe material from Scott Beach manhole for asbestos analysis. Collected three discrete soil samples in Area 1. Collected IA-REF-04 from a unit defined as a grassy wooded area between Cottage 7 and Caneel Beach. Collected 4 lead paint samples from Estate restaurant and Turtle Bay. Collected 46 asbestos samples from Estate restaurant, Estate house, Estate event room, Turtle Bay, and Hawksnest.	Stephen Mitchell	Griffith Henderson	Scanned Areas 2 and 3 for asbestos pipe and excavated a trench along the trace (no pipe found). Traced possible asbestos sewer pipe from Scott Beach manhole.	Attempted to locate asbestos pipe in Areas 2 and 3 with GPR. Advanced three borings blow the gravel pad in Area 1. Installed temporary piezometer in boring SC-1-01.
11/16/21	Checked piezometer in SC-1-01. Collected 44 more asbestos samples from Scott Beach and Cottage point. Collected a lead paint sample from Cottage Point. Developed monitoring wells MW-2-06, MW-2-07, and MW-2-09.	Stephen Mitchell	Griffith Henderson	Searched for ACM pipes at Scott Beach. Located utilities in the area north of the former gift shop.	Repaired rig, advanced soil boring SC-2-21 and SC-2-22. Installed MW-2-22.
11/17/21	Contacted potential clean fill sources. Developed monitoring wells MW-2-21 and MW-2-22. Abandoned MW-1 per USVI regulations. Collected groundwater samples from MW 2-09, MW-2-07, and the two dug wells in Area 2.	Stephen Mitchell	Griffith Henderson	Recon of buildings/areas south of Cottage 7 for asbestos pipes. Identified manholes connected to Scott	Excavated the GPR anomaly at the lower Catchment Basin.





Date	VHB	NPS	CBIA	Javier J. Bidot Assoc.	On-Site Environmental
	Collected 3 lead paint samples from Caneel Beach. Collected 64 ACM samples from Caneel Beach, Main Building, and Cottage Point. Shipped 5 sample coolers to ALS Middletown.			Beach pipes at Cottage 7.	
11/18/21	Met with Nigel Fields to discuss work status and findings. Reviewed site plan. Collected groundwater samples from MW-2-06, MW-2-21, and MW-2-22. Collected three additional lead paint samples. Collected 65 asbestos bulk samples from Little Caneel Bay, dive shop/pump building, Sugar Mill restaurant, and 2 asbestos soil samples in Area 1. Collected IDW soil and water samples.	Stephen Mitchell	NA	Identified a manhole near the tennis courts which may be connected to the network. Reviewed available utility plans in the former engineering office. A full review was not possible due to time constraints.	Backfilled the GPR anomaly excavation. Exposed cementitious pipe near the tennis court manhole for inspection. Abandoned temporary piezometers and closed remaining boreholes.
11/19/2021	Demobilized from the site. Shipped 6 coolers to ALS Middletown. Collected ISM samples from Sleepy's Trucking on St. Thomas to evaluate for clean fill. 19 Bulk asbestos samples collected within Area 2. Collected two additional lead paint samples.	None	None	None	Moved final soil ISM drum to the staging area. On-Site will manage disposal once IDW results are available. Will remove drill rig from site next week.



Table 2. Summary of Environmental Samples

SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.	PCBs	PAHs	Pesticides	pH (All Samples are Discrete)
<b>Soil- ISM</b>										
IA-CB-01	Surface soil	0-0.5 ft	ISM (Reps A to C), MS/MSD	-	-	-	-	-	11/13/21	-
IA-CB-02	Surface soil	0-0.5 ft	ISM (Reps A to C)	-	-	-	-	-	11/13/21	-
IA-REF-03	Surface soil	0-0.5 ft	ISM (Reps A to C)	11/13/21	-	-	-	-	-	-
IA-REF-04	Surface soil	0-0.5 ft	ISM (Reps A to C)	11/15/21	-	-	-	-	-	-
IA-REF-05	Surface soil	0-0.5 ft	ISM (Reps A to C)	11/19/21	-	-	-	-	-	-

SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
<b>Soil- Discrete</b>											
SC-2-06-7	Discrete soil	ft	Discrete	-	11/9/21	-	-	11/9/21	-	-	-
SC-2-06-18	Discrete soil	ft	Discrete	-	11/9/21	-	-	11/9/21	-	-	-
SC-2-06	Discrete soil	ft	Discrete	-	11/9/21	-	-	11/9/21	-	-	-
SC-2-07	Discrete soil	8.5-12.5 ft	Discrete	-	11/10/21	-	-	11/10/21	-	-	-



SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
SC-2-08	Discrete soil	15 ft	Discrete, duplicate of SC-2-101	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-09	Discrete soil	5-13.5 ft	Discrete	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-10	Discrete soil	13-17 ft	Discrete	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-11	Discrete soil	8 ft	Discrete, duplicate of SC-2-102	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-11	Discrete soil	10 ft	Discrete MS/MSD	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-12	Discrete soil	8 ft	Discrete	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-13	Discrete soil	6.5 ft	Discrete	-	11/10/21	-	-	11/10/21	-	-	-
SC-2-14	Discrete soil	7.3 ft	Discrete	-	11/11/21	-	-	11/11/21	-	-	-
SC-2-15	Discrete soil	2.8 ft	Discrete	-	11/11/21	-	-	11/11/21	-	-	-
SC-2-16	Discrete soil	2.4 ft	Discrete	-	11/11/21	-	-	11/11/21	-	-	-
SC-2-17	Discrete soil	9.5-20 ft	Discrete	-	11/11/21	-	-	11/11/21	-	-	-
SC-2-18	Discrete soil	6.7 ft	Discrete	-	11/11/21	-	-	11/11/21	-	-	-
SC-2-19	Discrete soil	20 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-2-20	Discrete soil	15 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-



SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
SC-2-21	Discrete soil	15 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-2-22	Discrete soil	18 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-C7-01	Discrete soil	5 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-C7-02	Discrete soil	5 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-C7-03	Discrete soil	6.6 ft	Discrete	-	11/12/21	-	-	11/12/21	-	-	-
SC-1-01	Discrete soil	0.5-17 ft	MS/MSD, Discrete	-	11/15/21	-	-	11/15/21	-	-	-
SC-1-02	Discrete soil	0.5-4.3 ft	Discrete, duplicate	-	11/15/21	-	-	11/15/21	-	-	-
SC-1-03	Discrete soil	0.5-4 ft	Discrete	-	11/15/21	-	-	11/15/21	-	-	-
L-09	Lead Paint	N/A	Discrete	11/15/21	-	-	-	-	-	-	-
L-10	Lead Paint	N/A	Discrete	11/15/21	-	-	-	-	-	-	-
L-11	Lead Paint	N/A	Discrete	11/15/21	-	-	-	-	-	-	-
L-12	Lead Paint	N/A	Discrete	11/15/21	-	-	-	-	-	-	-
L-13	Lead Paint	N/A	Discrete	11/16/21	-	-	-	-	-	-	-
L-14	Lead Paint	N/A	Discrete	11/17/21	-	-	-	-	-	-	-
L-15	Lead Paint	N/A	Discrete	11/17/21	-	-	-	-	-	-	-



SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
L-16	Lead Paint	N/A	Discrete	11/17/21	-	-	-	-	-	-	-
L-17	Lead Paint	N/A	Discrete	11/18/21	-	-	-	-	-	-	-
L-18	Lead Paint	N/A	Discrete	11/18/21	-	-	-	-	-	-	-
L-19	Lead Paint	N/A	Discrete	11/18/21	-	-	-	-	-	-	-
L-20	Lead Paint	N/A	Discrete	11/19/21	-	-	-	-	-	-	-
L-21	Lead Paint	N/A	Discrete	11/19/21	-	-	-	-	-	-	-
ACM-1 - ACM-46	ACM	N/A	Discrete	-	-	-	-	-	-	-	11/15/21
ACM-47 – ACM-91	ACM	N/A	Discrete	-	-	-	-	-	-	-	11/16/21
ACM-92 – ACM-156	ACM	N/A	Discrete	-	-	-	-	-	-	-	11/17/21
ACM-157 – ACM-222	ACM	N/A	Discrete	-	-	-	-	-	-	-	11/18/21
ACM-225 – ACM-244	ACM	N/A	Discrete	-	-	-	-	-	-	-	11/19/21
MW-2-09	Groundwater		Discrete	11/17/21	11/17/21	-	-	11/17/21	11/17/21	-	-
MW-2-07	Groundwater		Discrete	11/17/21	11/17/21	-	-	11/17/21	11/17/21	-	-
Dug Well 1	Groundwater		Discrete	11/17/21	11/17/21	-	-	11/17/21	11/17/21	-	-
Dug Well 2	Groundwater		Discrete	11/17/21	11/17/21	-	-	11/17/21	11/17/21	-	-





SAMPLE ID	MATRIX	DEPTH (bgs)	TYPE	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
MW-2-06	Groundwater		Discrete	11/18/21	11/18/21	-	-	11/18/21	11/18/21	-	-
MW-2-21	Groundwater		Discrete	11/18/21	11/18/21	-	-	11/18/21	11/18/21	-	-
MW-2-22	Groundwater		Discrete	11/18/21	11/18/21	-	-	11/18/21	11/18/21	-	-
IDW-Soil	Waste soil	Drum	Discrete	-	-	11/18/21	-	-	-	-	-
IDW-Water	Waste water	Drum	Discrete	-	-	11/18/21	-	-	-	-	-

Notes:

ft = Foot or feet

in = Inch

MS/MSD = Matrix spike/matrix spike duplicate



## Appendix 1 – Field Forms and Notes

Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: TA-CB-01 Sample Medium: Dry silty sand  
Project Name: Caneel Bay NPS Project #: 58345-21  
Site Location: St John, JSEI Date: 11/13/21  
Weather Conditions: Partly cloudy, 80°F Time On-Site: 1000  
Sampler: BWD/BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of decision unit location: Northern Portion of lower catchment  
Dimensions of decision unit: see sketch Coordinate system: see sketch  
Planned GPS coordinates: see sketch


Increment collection method: Auger / Spoon Sample depth range: 0-6"  
Approximate increment spacing: 10 ft Total number of increments collected: 40

2. SAMPLE INFORMATION:

Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<u>Pesticides</u>	<u>Fixed</u>	<u>1 x 1 gallon Ziploc, No preservatives</u> <u>1 gallon HDPE Jug</u>	<u>BWD</u> <u>11/13</u>

Original Name/Time: TA-CB-01 A @ 1230<sup>1015</sup> pH Sample Name/Time: NA  
Duplicate Name/Time: TA-CB-01 B @ 1230<sup>320</sup>  
Triplicate Name/Time: TA-CB-01 C @ 1245<sup>213</sup>

General comments / notes: Compacted soil + shallow rock refusal  
above 6" @ most increments

Lab Designation: TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720 (330)497-9396  
Chain of Custody #: NA Shipper Tracking #: Fedex

Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: IA-CB-02 Sample Medium: Dry s.s., sand  
Project Name: Caneel Bay - NPS Project #: 58345.21  
Site Location: St John, USVI Date: 11/13/21  
Weather Conditions: Partly Cloudy, 80°F Time On-Site: 1100  
Sampler: BEB/BWD

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of decision unit location: Southern Portion of lower Caneel Bay

Dimensions of decision unit: See table Coordinate system: See table

Planned GPS coordinates: See table


Increment collection method: Auger/spoon Sample depth range: 0-6'

Approximate increment spacing: 10 ft Total number of increments collected: 40

2. SAMPLE INFORMATION:

Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<u>Polycides</u>	<u>Fixed</u>	<u>1 x 1 gallon Ziploc, No preservatives</u> <u>1-gal NDPE bag</u>	<u>BWD</u> <u>11/13/21</u>

Original Name/Time: IA-CB-02 A @ 1115 pH Sample Name/Time: NA

Duplicate Name/Time: IA-CB-02 B @ 1130

Triplicate Name/Time: IA-CB-02 C @ 1145

General comments / notes: Compacted soil along road  
about 6" @ many locations

Lab Designation: TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720 (330)497-9396

Chain of Custody #: NA Shipper Tracking #: Feder

Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: 3<sup>rd</sup> IA-REF-03 Sample Medium: Mud silt, sand, organic  
Project Name: Caneel Bay - NPS Project #: 58345.21  
Site Location: St John, USVI Date: 11/13/21  
Weather Conditions: Partly Cloudy, passing snow Time On-Site: 1430  
Sampler: BWD/BRB 80°F

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of decision unit location: Open area between Turtle Bay & Scott Beach  
Dimensions of decision unit: 128' x 80' (gross) Coordinate system: see table  
Planned GPS coordinates: see table


Increment collection method: auger/spoon Sample depth range: 0-6'  
Approximate increment spacing: 16' Total number of increments collected: 40

2. SAMPLE INFORMATION:

Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<u>Argenic</u>	<u>Fixed</u>	<u>300 1 x 1 gallon Ziploc, No preservatives</u> <u>1-gal HDPE</u> <u>200</u>	<u>11/13/21</u>

Original Name/Time: IA-REF-03A @ 1445 11/13/21 pH Sample Name/Time: NA  
Duplicate Name/Time: IA-REF-03B @ 1430 11/13/21  
Triplicate Name/Time: IA-REF-03C @ 1445  
General comments / notes: MS/MSD on B replicate

Lab Designation: TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720 (330)497-9396  
Chain of Custody #: NA Shipper Tracking #: Fedex



Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: IA-RES-04A/B/C Sample Medium: No. st silty sand, trace  
Project Name: Caneel Bay - NPS Project #: 58345.21 gravel  
Site Location: St John, USVI Date: 11/15/21  
Weather Conditions: Partly Cloudy, breeze, 85°F Time On-Site: 0900  
Sampler: BND/BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of decision unit location: Cross/wooded area between Cottage 7 & Caneel  
Dimensions of decision unit: 160' x 64' Coordinate system: See table Bay  
Planned GPS coordinates: See table


Increment collection method: 2-gal spoon Sample depth range: 0-6"  
Approximate increment spacing: 16 ft Total number of increments collected: 40

2. SAMPLE INFORMATION:

Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<u>Arsenic</u>	<u>Fixed</u>	<u>1 x 1 gallon Ziploc, No preservatives</u> <u>1-gal HDPE jug</u>	<u>BND</u> <u>11/15/21</u>

Original Name/Time: IA-RES-04A @ 0930 pH Sample Name/Time: NA  
Duplicate Name/Time: IA-RES-04B @ 0945  
Triplicate Name/Time: IA-RES-04C @ 1030

General comments / notes: \_\_\_\_\_

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Chain of Custody #: NA Shipper Tracking #: Fela

Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: IA-RES-05 A/B/C Sample Medium: Stockpiled Topsoil  
Project Name: Caneel Bay Resort Project #: 58345.21 Medium Brown silty sand  
Site Location: St. John, USVI Date: 11/19/21  
Weather Conditions: BOF, sunny Time On-Site: 0930  
Sampler: BND/BTB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of decision unit location: Stockpiled Topsoil (Sleepy's Trucking / St. Thomas, USVI)  
Dimensions of decision unit: ~10' x 25' Coordinate system: see sketch

Planned GPS coordinates:

see sketch for center location


Increment collection method: Auger/spoon Sample depth range: 0-12"  
Approximate increment spacing: 2' Total number of increments collected: 40

2. SAMPLE INFORMATION:

Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<u>Ascertic</u>	Fixed	1 x 1 gallon Ziploc, No preservatives 1-gal HDPE Jug	<u>BND</u> <u>11/19</u>

Original Name/Time: IA-RES-05 A pH Sample Name/Time: NA  
Duplicate Name/Time: IA-RES-05 B  
Triplicate Name/Time: IA-RES-05 C

General comments / notes: ~10' x 25' x 6' stockpile <100 Bcy

Lab Designation: TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720 (330)497-9396

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-06 (7', 18')  
Project Name: Cancel Bay Resort  
Site Location: St John, VT  
Weather Conditions: 80°F, partly cloudy  
Sampler: BND/BRB

Project #: 58345.21  
Date: 11/9/21  
Time on Site: 1600

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: N of Soil Dispenser, Area 2  
GPS coordinates of sampling location: See table 1 Coordinate system: —  
Sample collection method: geoprobe Macrocone  
Sample depth range (ft): 7' bags, 18' bags

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
7	PAH, lead, VOCs	jar/vials	1630	Elevated PID, petroleum odor
18	"	"	1645	Slight petroleum odor

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA Shipper Tracking #: Fedex

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-07 (8.5, 12.5)

Project Name: Cancel Bay Resort

Project #: 58345.21

Site Location: St John, USVI

Date: 11/10/21

Weather Conditions: 80-85°F, Sunny

Time on Site: 0900

Sampler: BND, BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: Area 2

GPS coordinates of sampling location: See tablet

Coordinate system: —

Sample collection method: geoprobe, Macrocore

Sample depth range (ft): 8.5' bgs, 12.5' bgs

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
8.5	PAH, Lead, VOC	Jar/vials	9:25	elevated PLO, strong odor
12.5	" "	"	9:35	

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-08 (15')

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/10/21

Weather Conditions: 80-85°F, Sunny

Time on Site: 9:40

Sampler: BMD, BKB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see ticket

Coordinate system: \_\_\_\_\_

Sample collection method: geoprobe, macro core

Sample depth range (ft): 15'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
15'	PAH, Lead, <sub>vol</sub>	jars/vials	1010	no elevated PID

General comments / notes: Dup collected (SC-2-101) @ 15', 0700

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-09 (S, 13.5')

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St John, USVI, Area 2 (A3+)

Date: 11/10/21

Weather Conditions: Sunny 85° F

Time on Site: \_\_\_\_\_

Sampler: BAB BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: See tablet

Coordinate system: —

Sample collection method: geoprobe, macro core

Sample depth range (ft): 5', 13.5'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
5	PAH, Lead, voc	Vials, jars	11:30	elevated PLO
13.5	n	"	11:35	below impasto

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: PA

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-10 (13', 17')

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St John, VSUI, Area 2 (AST)

Date: 11/10/21

Weather Conditions: 85° Sunny

Time on Site: \_\_\_\_\_

Sampler: BND, BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: See tablet

Coordinate system: —

Sample collection method: geoprobe, macro core

Sample depth range (ft): 13', 17'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
13'	PAH, Lead, VOC	Jars, vials	1340	elevated PID
17'	LI	11	1320	elevated PID

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: PA

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-11 (8', 10')

Project Name: Camel Bay Resort

Project #: 58345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/10/21

Weather Conditions: Sunny, 85°F

Time on Site: 2:45 pm

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet

Coordinate system: -

Sample collection method: grab, macroon (drilled w/ a geoprobe DP)

Sample depth range (ft): 8' and 10'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
8'	PAH, Lead, Voc	Jars, vials	3:20 pm	SC-2-11-8, +MS 3' MSD
10'	"	"	3:25 pm	SC-2-11-10
8'	"	"	0800	SC-2-102 (Dup)

eliminated PID

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-12 (8')

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/10/21

Weather Conditions: Sunny, 85°F

Time on Site: 15:45

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location:

GPS coordinates of sampling location: see tablet

Coordinate system: —

Sample collection method: grab, macrocore (drilled w/ geoprobe DP)

Sample depth range (ft): 8'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
8'	PAH, Lead, Voc	Vials, jars	16:15	SC-2-12-8; elevated PLO

General comments / notes:

Lab Designation:

Chain of Custody #:

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-13 (6')

Project Name: Cancel Bay Resort

Project #: 58345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/10/21

Weather Conditions: Sunny, 85°F

Time on Site: 16:15

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet

Coordinate system: \_\_\_\_\_

Sample collection method: grab, macrocore, drilled w/ geoprobe DP

Sample depth range (ft): 6' - 6.5'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
6'	PAH, Lead, Voc	Vials, jars	1630	SC-2-13-6 ; bottom of core, no identified impacts

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-14 (7.3')

Project Name: Camel Bay Resort

Project #: 583485.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/11/21

Weather Conditions: overcast, 80°F

Time on Site: 0800

Sampler: CRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet

Coordinate system: \_\_\_\_\_

Sample collection method: grab, macrocore, geoprobe DP drill rig

Sample depth range (ft): 7.3'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
7.3'	PAH, Lead, Voc	jam/vials	0830	SC-2-14-7.3, petroleum odors

General comments / notes: PID malfunctioning; impacts identified via olfactory and visual cues

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA

Shipper Tracking #: Fedex

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Montpelier, VT 05602

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-15 (2.8')

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St John, VSUI, Area 2 (AST)

Date: 11/11/21

Weather Conditions: overcast, 80°F

Time on Site: 0830

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet Coordinate system: —

Sample collection method: grab, macrocore, geoprobe & drill rig

Sample depth range (ft): 2.8'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
2.8'	Mt, lead, voc	vacu jar	0900	SC-2-15-2.8; collected from bottom of core

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: \_\_\_\_\_

NA

Shipper Tracking #: \_\_\_\_\_

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-16 (2.4')

Project Name: Cameel Bay Resort

Project #: S8345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/11/21

Weather Conditions: overcast, 80°F

Time on Site: 0900

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet

Coordinate system: —

Sample collection method: grab, macrocore, geoprobe DP drill rig

Sample depth range (ft): 2.4'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
2.4'	PAH, Lead, Voc	Jars/vials	0930	SC-2-16-2.4; bottom of core

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA

Shipper Tracking #: FELR

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-1769.5', 20'

Project Name: Caneel Bay

Project #: 58345.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/11/21

Weather Conditions: overcast, 85°F

Time on Site: \_\_\_\_\_

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet Coordinate system: \_\_\_\_\_

Sample collection method: geoprobe, microcore, grab sample

Sample depth range (ft): 9.5, 20

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
9.5	PAH, Lead, Voc	Vials, jars	1350	SC-2-17-9.5
20	"	"	1355	SC-2-17-20

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: PA Shipper Tracking #: Feder

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Soil Sample Collection Record

Soil Sample Location ID: SC-2-18 (6.7')

Project Name: Caneel Bay

Project #: 58345.21

Site Location: St John, Virgin Islands, Area 2 (AST)

Date: 11/11/21

Weather Conditions: overcast, 85°F

Time on Site: 1406

Sampler: BRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: \_\_\_\_\_

GPS coordinates of sampling location: see tablet Coordinate system: \_\_\_\_\_

Sample collection method: grab, geoprobe, macrocore

Sample depth range (ft): 6.7'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
6.7'	PAH, Lead, Vol	bags, jars	1445	SC-2-18-6.7

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: PA Shipper Tracking #: Fedex

Reviewed by: TRO, MBM  
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CRF August 22, 2003



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Soil Sample Collection Record

Soil Sample Location ID: SC-2-14 (20') , 3 SC-2-20 (15')

Project Name: Caneel Bay Resort

Project #: 58435.21

Site Location: St John, USVI, Area 2 (AST)

Date: 11/12/21

Weather Conditions: Sunny, 80°F

Time on Site: 0800

Sampler: Ben Bliss (BRB)

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: see comments/notes

GPS coordinates of sampling location: see tablet

Coordinate system: —

Sample collection method: grab, geoprobe

Sample depth range (ft): 20' 3 15', respectively

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
20	PAH, Lead, VOA	jars, vials	0845	SC-2-14-20
15	"	"	1050	SC-2-20-15

General comments / notes: these borings are on the same log b/c we ran out of these logs. These two borings meant to follow trench to determine if the impacts are migrating to the west along the trench

Lab Designation: —

Chain of Custody #: PA

Shipper Tracking #: Fedex

Reviewed by: TRO, MBM  
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August 22, 2003

AR 004478

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Soil Sample Collection Record

Soil Sample Location ID: SC-C7-01, SC-C7-02, SC-C7-03

Project Name: Caneel Bay Resort

Project #: 58345.21

Site Location: St. John, USVI, Cottage 7

Date: 11/12/21

Weather Conditions: Sunny, 85°F

Time on Site: 1100

Sampler: DRB

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: by AC Units near cottage 7, near VST

GPS coordinates of sampling location: see tablet

Coordinate system: -

Sample collection method: grab, geoprobe

Sample depth range (ft): 01 (5'), 02 (5'), 03 (6.6')

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
5	PAH, Pb, Voc	Jaro, vials	1150	SC-C7-01
5	"	"	1330	SC-C7-02 + MS/MSD
6.6	"	"	1430	SC-C7-03 + Dup → see below
6.6	"	"	1200	SC-C7-101 (from 03)

General comments / notes: \_\_\_\_\_

Lab Designation: \_\_\_\_\_

Chain of Custody #: NA

Shipper Tracking #: Fedex

Reviewed by: TRO, MBM  
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August 22, 2003

AR 004479

### Water Level Measurement Record

Project Name: Caneel Bay Resort Site

Project #: 58345.21

Site Location: Virgin Islands National Park (VIIS)

Date: 11/18/21

Weather Conditions: Sunny, some rain

Time on Site: 1600

Personnel: BRB, BVD

Location	Time	Depth to Water (ft. btoc)	<i>total depth (btoc)</i> Observations
MW-1			
MW-2-06	0715	10.02	17.04 <i>WL was 10.98 ft. btoc @ 1600 on 11/19</i>
MW-2-07	1600	5.78	17.43
MW-2-09	1605	8.44	19.22
MW-2-21	0930	4.05	15.43
MW-2-22	0845	2.09	18.28
Dug well 1	1610	~ 4.65	~ 12.5
Dug well 2	1615	~ 4.80	~ 9.8

Project Name: CBR Site

Project #: 58345.21

Initials: BRB

Date: 11/18/21

\\vhb\gbl\proj\Montpelier\58345.21 NPS Caneel Bay Resort\Reports\EECA Planning Documents\EECA SAP\Appendices\Appendix 1 - Field Forms\CBR Water Level Measurements.docx

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Well ID: MW-2-67

Date: 11/17/21

Sampler: BRB

Time on site: 0900

Description of measuring point (MP) Top of casing Depth to water below MP (ft): 8.50

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 1.87 PID Headspace (ppmV): \_\_\_\_\_

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: 150 (gpm)

[illegible]

AR 004481

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-07

Date: 11/17/21

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 1030

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40mL	HCL	VOC	
1	125mL	HNO3	Lead	
2	1L	-	PAH	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BNP

Pumping Rate: 600 mL/min Volume removed: ~8 gal

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-07 for VOC, PAH, lead, Barium, arsenic,

PCB/pesticides

Time off site: 1100



Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-09  
Project Name: Caneel Bay Resort Site Project #: 58345.21 Date: 11/17/21  
Site Location: Virgin Islands National Park Sampler: BRB  
Weather Conditions: Sunny, 85°F Time on site: 10:30

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) Top of casing (meat) Depth to water below MP (ft): 9.47  
Total well depth (ft): 2032 Well diameter (in): 2" Length of water column in well (ft): 10.75  
Gallons per foot: 10.75 Well volume (gal): 1.72 PID Headspace (ppmV): 0.16

2. PURGING DATA: Method:

Method: per pump Stabilized intake depth: 17'  
Purge Volume @ well volume: (gal) Purge Rate: 150 (gpm)

Parameter equipment:

Time	Depth (ft)	Volume Removed (L)	Flow Rate (mL/min)	Temp (deg C)	Spec Cond (uS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turb. (NTU)
<del>1050</del> 1057	9.47	0	0	Start	---	---	---	---	---
<del>1055</del> 1102	10.83	0.75	150	32.10	37.64	1.18	7.03	110.7	34.2
1107	11.40	1.5	150	32.14	37.38	1.06	7.02	101.4	33.2
1112	11.96	2.25	150	31.94	37.13	1.18	7.00	96.9	25.5
1117	12.19	3.00	150	32.02	37.24	1.21	6.99	97.3	20.8
1122	12.42	3.75	150	31.56	37.45	1.22	7.00	101.7	18.2
1127	12.45	4.50	150	31.41	37.63	1.22	7.02	103.7	15.7
1132	12.45	5.25	150	31.46	37.72	1.22	7.03	105.4	14.9
1137	12.45	6.00	150	31.35	37.75	1.14	7.03	107.3	15.6
Sampled at 1145									

Purge Water Disposal Method Drain Comments (e.g. color / odor): -

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-09

Date: 11/17/21

3. SAMPLE COLLECTION: Method: per pump Sample Time: 1145

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40mL	HCl	VOC	
1	125 mL	HNO <sub>3</sub>	Lead	
2	1L	—	PAH	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BND

Pumping Rate: 600 mL/min Volume removed: 7 gal

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-09

for VOC, PAH, Lead, Barium, arsenic, PCB, pesticides

Time off site: 1200

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Well ID: Dun Well 1

Date: 11/17/21

Sampler: BRB

Time on site: 140

Description of measuring point (MP) side of well in Depth to water below MP (ft): 4.61

Total well depth (ft): ~12.5 Well diameter (in): \_\_\_\_\_ Length of water column in well (ft): \_\_\_\_\_

Gallons per foot<sup>1</sup>: \_\_\_\_\_ Well volume (gal): \_\_\_\_\_ PID Headspace (ppmV): \_\_\_\_\_

2. PURGING DATA: Method: fire pump Stabilized intake depth: 7'

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: \_\_\_\_\_ (gpm)

Parameter equipment: VSI turbidimeter

[illegible]

Purge Water Disposal Method Down Comments (e.g. color / odor): -

Ground Water Monitoring Well Sample Collection Record

Well ID: Dug well 1

Date: 11/17/21

3. SAMPLE COLLECTION: Method: peri pump

Sample Time: 1340

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40 mL	HCL	VOC	
1	125 mL	HNO <sub>3</sub>	Lead, Barium, arsenic	
2	1L	—	PAH	
2	1L	—	PCB/pest	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: Not developed Personnel: \_\_\_\_\_

Pumping Rate: \_\_\_\_\_ Volume removed: \_\_\_\_\_

General drawdown/ well pumped dry? \_\_\_\_\_

Comments: Sample ID = Dug well 1

for VOC, PAH, Lead, Barium, arsenic, PCB/pests

Time off site: 1400

Well ID: Oug well 2

Date: 11/17/21

Sampler: BKB

Time on site: 1430

Gallons per foot<sup>1</sup>: \_\_\_\_\_ Well volume (gal): \_\_\_\_\_ PID Headspace (ppmV): \_\_\_\_\_

Parameter equipment: 45 I, two transmitter

Purge Water Disposal Method Dr Comments (e.g. color / odor): —



Ground Water Monitoring Well Sample Collection Record

Well ID: Dug well 2

Date: 11/17/21

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 1520

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40 mL	HCL	VOC	
1	125 mL	HNO <sub>3</sub>	Lead, Barium, arsenic	
2	1L	—	PAH	
2	1L	—	PCB/pest	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: not developed Personnel: \_\_\_\_\_

Pumping Rate: \_\_\_\_\_ Volume removed: \_\_\_\_\_

General drawdown/ well pumped dry? \_\_\_\_\_

Comments: Sample ID = \_\_\_\_\_

\* the water level tape is at a consistent angle due to a step down in the well. so, the depth-to-water is not accurate, but it is precise

Time off site: 1540

Well ID: MW-2-06

Date: 11/18/21

Sampler: BRB

Time on site: 7:15

Description of measuring point (MP) top of casing (cut) Depth to water below MP (ft): 10.02

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): \_\_\_\_\_ PID Headspace (ppmV): \_\_\_\_\_

Parameter equipment: none, here

Time	Depth (ft)	Volume Removed ( )	Flow Rate ( )	Temp (deg C)	Spec Cond (uS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turb. (NTU)
		0	0	Start	----	----	----	----	----
* sampled at 07:40									
* this well recharges very slowly so this well was not purged. A grab sample was collected here.									
* flow rate of ~100 ml/min									

Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-06

Date: 11/18/21

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 0740

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40 ml	HCL	Vic	
2	1L	-	PAH	
1	125 ml	HNO3	Lead	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BND

Pumping Rate: 600 ml/min Volume removed: 1.25

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-06

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Time off site: 6800

Well ID: MW-2-21

Date: 11/18/21

Sampler: BRB

Time on site: 0845

Description of measuring point (MP) top of casing Depth to water below MP (ft): 4.05

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): \_\_\_\_\_ PID Headspace (ppmV): \_\_\_\_\_

2. PURGING DATA: Method: peri pump Stabilized intake depth: 16.0 13.5

Parameter equipment: YSI, turbidimeter

↳ scan bag, will let redempt and then take a great sample

AR 004491

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-21

Date: 4/18/21

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 11:30

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40ml	HCL	Voc	
23	1L	-	PAH + P	
1	125 mL	HNO <sub>3</sub>	Lead, barium, arsenic	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/17/21 Personnel: BKB

Pumping Rate: 600 ml/min Volume removed: 2.25

General drawdown/ well pumped dry? dry

Comments: Sample ID = \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Time off site: \_\_\_\_\_



Well ID: MW-2-22

Date: 11/18/21

Sampler: **BRB**

Time on site: 0930

Description of measuring point (MP) top of casing Depth to water below MP (ft): 2.40

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): \_\_\_\_\_ PID Headspace (ppmV): \_\_\_\_\_

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: \_\_\_\_\_ (gpm)

Parameter equipment: YSI, turbidimeter

Sampled at 11:45

AR 004493

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-22

Date: 11/19/21

3. SAMPLE COLLECTION: Method: puri-pump Sample Time: 11:45

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/17/21 Personnel: BRB

Pumping Rate: 600 - 1 / min Volume removed: 16

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-22 @ 11:45

MW-2-MS @ 11:45

MW-2-MSD @ 11:45

MW-104 @ 1200

Time off site: \_\_\_\_\_

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Location ID: MW-2-02

Project #: 58345.21

Personnel: B.W.D.

Date: 11/16/21

Time on Site: 1403

Description of measuring point (MP): Top of casing (new) Depth to water below MP (ft): 4.35

Total well depth (ft): 20.22' Well Dia. (in): 2" Length of water column in well (ft): 10.87

Gallons per foot<sup>1</sup>: 0.09 / 0.16 Well volume (gal): 1.3 Screen Interval (ft): 15'-7.0'

2. PURGING DATA: Method: Buier Development Depth Range: 15'-20'

Purge Volume @ \_\_\_\_\_ well volumes: \_\_\_\_\_ (L) (3.785 L/gal) Purge Rate: \_\_\_\_\_ (L/min)

Parameter equipment: None 2100

[illegible]<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

~~2" gauge / 1.5" cut~~

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Ground Water Sampler Development Record

Project Name: Caneel Bay Resort Site

Project #: 58345.21

Location ID: MW-2-09<sup>07</sup>

Site Location: Virgin Islands National Park (VIIS)

Personnel: BWD

Date: 11/16/21

Weather Conditions: sun, 82°F

Time on Site: 1440

1. WATER LEVEL DATA:

Description of measuring point (MP): Top of casing (uncol) Depth to water below MP (ft): 8.33'

Total well depth (ft): 20.19 Well Dia. (in): 2" Length of water column in well (ft): 15-20 11.86'

Gallons per foot<sup>1</sup>: 0.12/0.09 Well volume (gal): 1.4 Screen Interval (ft): 15-20 3.00 11/10/21

2. PURGING DATA: Method: per p-p Development Depth Range: 15-20'

Purge Volume @ \_\_\_\_\_ well volumes: \_\_\_\_\_ (L) (3.785 L/gal) Purge Rate: \_\_\_\_\_ (L/min)

Parameter equipment: Alcor 7100

Time	Water Depth (ft.)	volume removed ( )	Flow Rate ( )	Turb. (NTU)	Notes: (depth to bottom, color, odor, pump setting, etc.)
1440	8.33	0	-	-	TD = 20.19
	14	1 gal	500	avg	light brown / turbid /
1510	14	1.5 gal	500	"	no sheen / petroleum odor
1511	15.01				
1516	15.95	3 gal	500	avg	
1523	19.25	3.5 gal	500	"	
1630	8.55	-	-	-	
1632			600		
1638	13.7	4.5	600	40	clear, no sheen, petroleum
1648	15.15		600	40	color
1654	16.0	7 gal	650	90	
1700		purged	dry		
1744	8.50				
	8.5				
	8.00 11/17/21				

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01      0.75" = 0.023      1.00" = 0.041      1.25" = 0.064      1.50" = 0.09  
2.00" = 0.16      3.00" = 0.32      3.50" = 0.50      4.00" = 0.65      6.00" = 1.47

2" screen, 1.5" r.s.d. AR 004496

**Phone: (802) 229-4600**  
**Fax: (802) 229-5876**  
**www.vhb.com**

Location ID: MW-7-06

Project #: 58345.21

Date: 11/16/21

Time on Site: 1530Depth to water below MP (ft): 12.51

Gallons per foot<sup>1</sup>: 0.16 / 0.09 Well volume (gal): 1.04 Screen Interval (ft): 15'-20'

Development Depth Range: \_\_\_\_\_

Parameter equipment: Back 2100

[illegible]

\* 2" screw / 1.5" r.A.B. 004497



**Phone: (802) 229-4600**  
**Fax: (802) 229-5876**  
**www.vhb.com**

Location ID: MW-2-21

Project #: 58345.21

Date: 11/17/21

Time on Site: 1545

Description of measuring point (MP) Top of ceiling Depth to water below MP (ft): 2.82

Total well depth (ft): 15.43 Well Dia. (in): 2" Length of water column in well (ft): 12.61

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 2.076 Screen Interval (ft): 10-15'

2. PURGING DATA: Method: Peri pump Development Depth Range: 10-15

Purge Volume @ \_\_\_\_\_ well volumes: \_\_\_\_\_ (L) (3.785 L/gal) Purge Rate: ~~350~~ ~~600~~ 0.6 (L/min)

Parameter equipment:

[illegible]

<sup>1</sup>Well volumes for various diameters in gal./ft.

$$\begin{aligned} 1.50'' &= 0.09 \\ 6.00'' &= 1.47 \end{aligned}$$

**Phone: (802) 229-4600**  
**Fax: (802) 229-5876**  
**www.vhb.com**

Location ID: MW-2-22

Project #: 58345.21

Date: 11/1/77

Time on Site: 16:15

Description of measuring point (MP) Top of casing Depth to water below MP (ft): 2.78

Total well depth (ft): 18.28 Well Dia. (in): 2 Length of water column in well (ft): 15.5

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 2.48 Screen Interval (ft): 18'-8"

2. PURGING DATA: Method: perisperm Development Depth Range: 18-8

Purge Volume @ \_\_\_\_\_ well volumes: \_\_\_\_\_ (L) (3.785 L/gal) Purge Rate: 0.6 (L/min)

[illegible]<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

2/24/21 cont.

58345.21

Equipment truck collected off  
ISN logs

EB-SOIL-20210224 @ 1730

2/25/21

0745 on site @ NPS maintenance  
to pack sample coolers for  
shipping. Drop @ VS.

- Drive to Storage unit at  
Caneel Bay Resort to  
clean up and pack equipment  
for shipping. Drop equipment  
off at VS for Friday pick up  
by Fed Ex.

11/8/21 Caneel Bay Resort

0800 Ben Deede + Ben Bliss of VHP  
meet Shawn Mulligan of NPS  
+ travel to site

GPR/surveyor crew onsite  
Meet w/ Jeff + Gr. S. H. Hernandez  
Gr. S. H. will assist w/ clearing  
shrub GPR crew @ AST area  
~1000 Ricardo of A-site onsite  
w/ excavator

1238 MW-3-01 - Day 2 1652 / 1p wet  
~1000 Ben Deede / Ben Bliss meet  
w/ Nigel + pick up shipments

Gr. S. H. shows us to 2 dog wells.

- Both are open - water  
- polished drilled well near "hole"  
will require clearing

1530 on site offsite

~1630 VHP - surveys offsite

28 11/9/21 Cheel Bay Resort BND

- 0700 BND, BRB, Shuan Mulligan  
on-site. B:dot on-site  
B:dot finished in AST area. Walk  
WWT area - needs clearing. Walk  
Collage 7 area B:dot needs  
prep. S. to W. down shore  
Return to AST area: Excavator  
crew continues clearing  
- On-site finishes work @ AST then  
starts CBIA on-site at WWT  
start B:dot at Collage 7  
~1100 On-site Collage 7  
- trace fuel line around N.E  
of Collage 7. locate vertical  
steel pipe. Attempt clear for GPR  
→ poor data due to roots  
→ hand dig by AK to 1.5' - 2.0'  
not fuel lines at 1'  
~1400 On-site drill rig on-site  
tailgate nearby  
~1530 Begin drilling at SC-Z-03  
~1600 On-site off-site  
~1700 VHB off-site

11/10/21 Cheel Bay Resort BND<sup>29</sup>

- 0700 BND, BRB on-site  
Measure water at PZ-SC-Z-06  
DTW ~ 12.82 ft bgs ~ trace produced  
TD 14.9 ft bgs + petroleum odor  
0800 B:dot Lssc on-site - clear WWT  
0800 On-site on-site Begin @  
SC-Z-07  
~1000 B:dot move to g/L asbestos pipe  
location begin tracing  
~1030 CBIA finish clearing at location  
→ move to g/L pipe location  
~1100 On-site locate fuel line at (exposed)  
Collage 7  
- Dig along sidewalk, uncover ~1.5'  
steel pipe under Collage 7 porch (possible still in it)  
- Dig between sidewalk & AC units  
expose tank/pipe  
No odors or stained soil along  
pipe or tank  
headspace ~12 ft. Depth/Dia ~3'  
hor. vertical steel tank  
→ asbestos pipe location limited to the W due  
to flooded vaults  
well installed at SC-Z-07 partially  
~1640 VHB off-site  
Rite in the Rain

30 11/11/21 Canal Bay Resurf

0700 MB-Sharon Mulligan on site  
B-dot on site, continue asbestos ppe  
import / export utility network at SBT  
0730 On-site on site, begin drilling  
at SC-Z-14 through SC-Z-16.

0855 DTW @ SC-Z-09 = 9.31 above WAP  
odor on hp

0857 DTW @ SC-Z-07 = 5.2 - trace WAP  
odor / on-site site

0900 DTW @ SC-Z-06 = 10.7 above WAP  
odor / on-site site

1000 On-site begin installing well at  
SC-Z-06 = MW-Z-06

begin install @ SC-Z-07 = MW-Z-07

1000 On-site / B-dot measure poss. asbestos  
ppe near Engineering area  
short section of ppe is carrying  
a valve in a steel ppe

Equipment Blank collected off scoop:

EB-SOIL-20211111 @ 1530

Top Blank - TB-20211111 e -

1700  
1600 off site  
11/11/21  
300

Canal Bay Resurf

31

0800 MB/B-dot on site 11/13/21  
- Begin 2, surveying surveys + wells  
- wells surveyed to top of loc + g/s

0850 SC-Z-01 ppe DTW = 2.0 @ 11.51  
Toe Flow (SI) DTW (bTUC)  
SC-Z-06 25.019 12.30  
SC-Z-07 22.066 8.41 8.61  
SC-Z-09 18.414 9.27  
Dig Well 1 9.659 4.90  
Dig Well 2 6.415 4.60

- MB collected Ism samples at lower  
caliber

- B-dot scans previously unscored any  
- no new anomalies

- possible fence between anomaly + utility

- B-dot continues scanning Area 2 ppe  
2 ppe below active water system c/s

- B-dot back to Area 1 to scan next,  
cleared areas - nothing of note

Equipment Blank off auger  
EB-SOIL-20211113 @ 1530

for post-cidest As

1415 MB off site

AR 004502

Rite in the Rain



Caneel Bay Resort (Page 32)  
BWD 11/12/21

11/12/21

- 0700 VHB/B.Dol/on-site on-site
- ~~0715~~ B.Dol clears access rd at ASTs for drilling. IDifies concrete box crossing
  - On-site advances SC-2-19 and SC-2-20 along utility trench - no evidence of petroleum cat.
  - On-site move to Cottage 7 - advance SC-C7-01 - SC-C7-03 - no evidence of petroleum contamination - ~~move~~ <sup>B.D.</sup> 11/12/21 install temp pierzo @ SC-C7-01
  - CBI 4/B.Dol/on-site continue work in Area 2 on asbestos ppe
  - uncover 1 valve box (w/box) → PVC
  - B.Dol trace aboveground ppe to where it goes underground
    - ~60' off road - in line w/ concrete box located earlier
  - Asbestos Pipe near or other areas: Turtle Bay - visible storm ppg is PVC/iron
  - Hawknest - visible water ppg is PVC
  - Scott Beach - Possible asbestos sewer ppe ~~detected~~ <sup>detected</sup> ~~BWD 11/12/21~~
- 1600 on-site

11/15/21 Caneel Bay Resort BWD 33

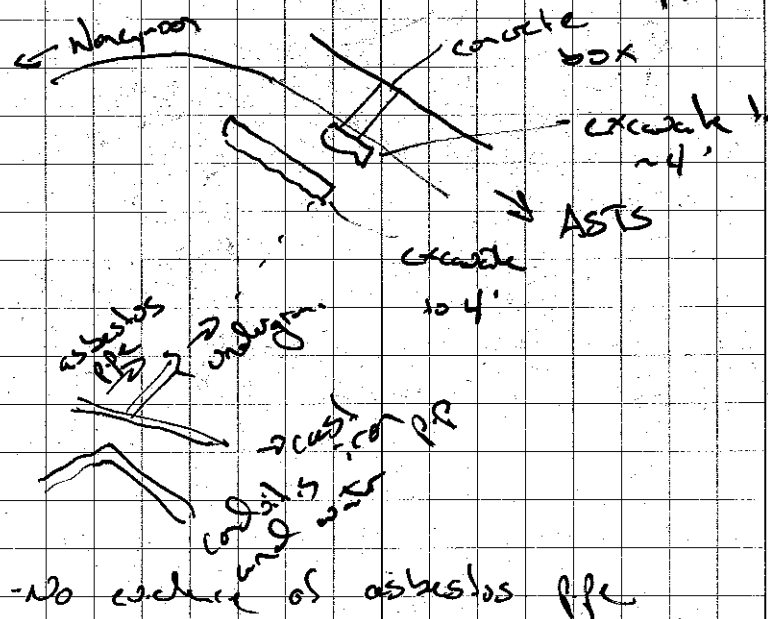
0700 BWD/B.R.B. &amp; VHB on-site

B.Dol on-site

- 0715 On-site excavation crew on-site B.Dol + on-site attempt to locate asbestos ppe of access road "huck box" no evidence of ppe to 4' no evidence on CPR

VHB says I'm spying @ IA-Ref-01

- Scan surrounding area w/ CPR for



AR 004503

11/15/21 Canal Bay Resort 305

1215 On-site drill core on site

On-site Seagull drilling work at camp.  
 shallow ReSusal (ud?) in rock  
 in southern 2 Sonags. Northern  
 boring to ~17' ag. out dip.  
 will install piezometer

~1100 Bdot Seagull work @ Scott Beach.

starting at north  
 connecting pipe is traced to the  
 North

D.R. culty, locating p.p.e. to the  
 south

UNB samples p.p.e. at  
 original north hole & next  
 north hole to the north.

1615 VMB off-site

Canal Bay Resort 11/16/21

0700 VMB on site / Bdot on site

VMB reamer go at SC-1-01  
 dr. 2 10' moisture on 1p  
 Bdot to calibrate work @  
 Scott Beach

Collect soil equipped blank  
 off gear for soil analysis

EB-soil-20211116 @ 0800

Top Blue TB-20211116

~800

CBIA clears area to 10-8  
 former g.SI shop

~1200 Bdot clears ul. l. l. is

~900 On-site attempts to install SC-1-01  
 deeper - achieves ~1251 ag. p.e. to  
 reinstalled

Hydraulic line rupture on ca.  
 On-site manages to find replacement  
 hose on St. John + repairs -  
 stained soil removed & calibrates

~400 On-site moves to g.SI shop  
 to install Sonags/wells there

VMB develops SC-02-06/07/09

36 11/17/21 (Coral Bay) BUD

- 0700 VHB/Steve Mitchell/ B.Dol note  
B.Dol to start search areas  
for other signs of asbestos ppe  
will start at cottage 7 + work S  
• VHB begins g w supply  
in Area 2  
• Ship out 5 coolers to AHS w/  
sol supply

0800 On site on site near drilling  
wells at former water station  
then proceed to well completion

~1200 <sup>BUD</sup>  
11/17

- B.Dol locates umbles between Scott  
Beach + Cottage 7 that are flooded so  
can't proceed Sol appear to be  
in line w/ Scott Beach Asbestos Ppe

~1200 <sup>BUD</sup>  
11/17 B.Dol returns S to Terrace Rest.  
Does not identify evidence of asbestos  
ppe

~1200 B.Dol/Onsite to lateral  
dug excavating trench  
- concrete @ around 1' deep  
appears to be undisturbed/undisturbed  
rounded at one end. Exhibits 2nd  
GPR network exhibits.

AR 004505

11/18/2 Cheel Bay Resort  
 0700 VAB / Steve Mitchell on-site  
 B. Dol on-site  
 B. Dol surveys finished with  
 containers & near of Terrace Rest.  
 S to Little Cheel Beach  
 VAB continues go sampling

0800 On-site on site (excavator)  
 & backfill catchment basin  
 excavator & return excavator  
 to main site

B. Dol locates intake to U of  
 Lewis coast. two conventional  
 pipes <sup>2.5"</sup> are uncovered,  
 on-site

1000 On-site (Arthur) on site  
 begin final drawing and design  
 p.e. & workers & boreholes  
 put up drilling rig

1100 Discuss availability of utility plus  
 w/ Jeff Lander & he says ok to  
 look in Engineering office. Officers  
 does in Burlington, MA (says not have seen  
 record) asks about summary & respond that  
 likely can't come for us  
 off site

Purchase rebar & spig

AR 004506

Cheel Bay Resort 11/18/21  
 0700 BUD / BRB on-site @ NPS  
 Maintenance to pack coals & equipment  
 BUD to site to remove equipment for  
 engineering office  
 0830 to St Thomas to sample top  
 soil sample  
 10430 Arrive at Sleepy's Trucking  
 shown topsoil stockpile w/ larger  
 junk/maintenance yard  
 sampled pile by ISM for Arsenic  
 -IA-26-05 1/13/21

> leave for Feder to strip off coals  
 & equipment


6 coals to ALS  
 2 boxes to PWR  
 1 box to VAB

11430 return to NPS Maintenance yard  
 to return equipment  
 > return to site  
 on-site has moved den

1530 off-site





## Appendix 2 – Daily Reports


CANEEL BAY EE/CA INVESTIGATION DAILY PROGRESS REPORT					
Date:	10/5/2021				
VHB Reporter:	Jason Hooper	Time on-site:	830	Time Off-site:	1700
Weather:	Morning			Afternoon	
	70-90 deg F			70-90 deg F	
	Mostly sunny			Mostly sunny	
	n/a				
<b>Other On-Site Personnel</b>					
National Park Service (NPS):		David P. Horner			
VHB:		n/a			
Subcontractors:		On-Site Environmental			
Caneel Bay Representative:		Jeff Lambert			
<b>Activities</b>					
Groundwater	Sampled:				
	Notes:	n/a			
Borings	In-progress:				
	Completed:				
	Discrete Samples:				
	Notes:				
ISM Samples	Sampled:				
	Notes:				
Lead-based paint soil samples	Sampled:				
	Notes:				
Asbestos Survey	Notes:	Inspected building debris areas A1 through A7, and collected 18 bulk samples and 6 paint chips.			
GPR and EMI Survey	Notes:				
IDW	Sampled:				
	Notes:				
Safety Briefing Performed?					




<b><i>Other Reportable Activities, Problems/Deviations, Required Follow-Up</i></b>	
Much of the site is severely overgrown. The area around the suspected UST at Cottage 7 was recently cleared by CBIA. Future surveys and building inspections will require targeted clearing.	
<b><i>Shipping</i></b>	
<i>Cooler destinations, COC numbers</i>	n/a
<b><i>Photographs</i></b>	
No photographs were taken today	

CANEEL BAY EE/CA INVESTIGATION DAILY PROGRESS REPORT					
Date:	10/6/2021				
VHB Reporter:	Jason Hooper	Time on-site:	840	Time Off-site:	1715
Weather:	Morning			Afternoon	
	70-90 deg F			>90 deg F	
	Mostly sunny			Mostly sunny	
	n/a				
<b>Other On-Site Personnel</b>					
National Park Service (NPS):		David P. Horner			
VHB:		n/a			
Subcontractors:		n/a			
Caneel Bay Representative:		Jeff Lambert			
<b>Activities</b>					
Groundwater	Sampled:				
	Notes:	Located MW-3-01 and collected rough measurements: 16.5 ft depth, 1-2 inches of water present			
Borings	In-progress:				
	Completed:				
	Discrete Samples:				
	Notes:				
ISM Samples	Sampled:				
	Notes:				
Lead-based paint soil samples	Sampled:				
	Notes:				
Asbestos Survey	Notes:	Inspected building debris areas A8-A27. Collected 15 bulk samples and 3 paint chips.			
GPR and EMI Survey	Notes:				
IDW	Sampled:				
	Notes:				
Safety Briefing Performed?					

<b>Other Reportable Activities, Problems/Deviations, Required Follow-Up</b>	
By CBIA description and site observations, areas visible to public, such as A12, A13, and A19, have been cleared of some debris. Debris was observable in less-accessible overgrowth.	
<b>Shipping</b>	
<i>Cooler destinations, COC numbers</i>	Will ship 33 bulk samples for asbestos and 9 paint chip samples for lead to EMSL.
<b>Photographs</b>	
	
1. MW-3-01 well in landfill located. Difficult to find in long grass.	

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 8, 2021	<b>Time On-Site:</b>	08:10	<b>Time Off-Site:</b>	16:45
<b>Weather:</b>	Morning: 70-90 deg F, Calm, clear, humid ; Afternoon: 70-90 deg F, Clear, breezy				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	None				
<b>Other Reportable Items:</b>	VHB and Shawn Mulligan met with Jeff (last name unknown) and Griffith Hendrickson of CBIA to discuss work coordination. VHB and Shawn Mulligan met with Nigel Fields to discuss work kickoff.				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Shawn Mulligan			
<b>CBIA</b>	<b>Representatives:</b>	Jeff ?, Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss				
<b>Subcontractor(s):</b>	On Site Environmental, Bidot Associates				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	General Site recon including Area 3, Area 2, Area 1, Cottage 7, Catchment Basin, wastewater treatment plant, and dug wells.				
<b>Search Details:</b>	VHB performed recon of work areas and informed CBIA representatives of areas to be cleared. <ol style="list-style-type: none"> <li>1. Water supply wells: VHB located dug wells with assistance from CBIA; wells are open and contain water. The dug wells are thought to date to the plantation era. These are not the drilled wells reported to be on-site. A CBIA employee reported that the one of the drilled wells had been filled with concrete. Locating and clearing the alleged drilled well near the engineering buildings is underway by CBIA. VHB prepared sampling supplies and equipment.</li> <li>2. Bidot Associates located/marked utilities in AST area within Area 2 for drilling activities. The AST area was cleared by CBIA and On-Site.</li> </ol>				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples Collected:</b>	No				
<b>Monitoring Wells In-Progress:</b>	NA				
<b>Monitoring Wells Completed:</b>	NA				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Monitoring Wells Developed:</b>	NA	
<b>Monitoring Wells Abandoned:</b>	NA	
<b>Sample Names:</b>	NA	
<b>Groundwater Notes:</b>	Water level measurement taken at MW-3-01. Well was dry at 16.52 ft below top of casing. No water sample will be collected from this location.	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	No	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	NA	
<b>Borings Sampled:</b>	NA	
<b>Boring Notes:</b>	NA	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	No	
<b>Lead Notes:</b>	NA	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>	No	
<b>Asbestos Notes:</b>	NA	
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>IDW Notes:</b>	NA	

## Photographs



Area 2 AST area following clearing and utility markout.



View of northern dug well







View of southern dug well. Water was visible below pallets.




View of leaking transformer excavation soil piles from February 2021 near wastewater treatment plant. Tarps are deteriorated.

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 9, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	17:15
<b>Weather:</b>	Morning: 70-90 deg F, Calm, party cloudy ; Afternoon: 70-90 deg F, Partly cloudy, passing showers				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	The drilling crew/drill rig did not arrive on site until 2 pm due to trucking delays				
<b>Other Reportable Items:</b>	None				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Shawn Mulligan			
<b>CBIA</b>	<b>Representatives:</b>	Jeff, Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss				
<b>Subcontractor(s):</b>	On Site Environmental, Bidot Associates				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	<ol style="list-style-type: none"> <li>Area 1</li> <li>Cottage 7</li> <li>Catchment Basin</li> <li>Historical water supply well</li> </ol>				
<b>Search Details:</b>	<ol style="list-style-type: none"> <li>CBIA and On-Site cleared drilling areas below the gravel pad in Area 1 and the gravel pad for GPR scanning. Bidot began locating utilities in the Area 1 drilling area.</li> <li>Bidot Associates located utilities and possible fuel lines at Cottage 7. The fuel line signal was traced around the northern and eastern sides of Cottage 7; however, the signal was inconsistent. Bidot attempted to scan a possible UST area where a vertical steel pipe was observed at the ground surface with GPR; reliable data were not produced due to extensive root networks. On Site attempted to uncover the line at one location but could not identify it. On-Site will continue to try to uncover the line/possible UST tomorrow.</li> <li>CBIA began clearing below the Catchment Basin.</li> <li>CBIA located and cut a path to an alleged drilled well to the east of the engineering and maintenance buildings. VHB inspected the former well; it appears to have been filled with grout and closed.</li> </ol>				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Groundwater Sampling</b>		
<b>Groundwater Samples Collected:</b>	No	
<b>Monitoring Wells In-Progress:</b>	NA	
<b>Monitoring Wells Completed:</b>	NA	
<b>Monitoring Wells Developed:</b>	NA	
<b>Monitoring Wells Abandoned:</b>	NA	
<b>Sample Names:</b>	NA	
<b>Groundwater Notes:</b>	A temporary piezometer was installed at boring SC-2-06 in Area 2. The piezometer will be checked for groundwater tomorrow.	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	Yes	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	SC-2-06, to the north of the fuel dispenser, across a utility trench, in Area 2.	
<b>Borings Sampled:</b>	SC-2-06-7, SC-2-06-18	
<b>Boring Notes:</b>	Clearing was completed in the Area 2 AST area; drilling was initiated by On-Site. At SC-2-06, evidence of petroleum contamination was observed from approximately 3 ft bgs to refusal at 18 ft bgs with the strongest PID response at 3 and 7 ft bgs.	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	No	
<b>Lead Notes:</b>	NA	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>	No	
<b>Asbestos Notes:</b>	NA	



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>	No	
<b>Sample Names:</b>		
<b>IDW Notes:</b>	NA	

### Photographs



View of SC-2-06 boring location with temporary piezometer installed. Note utility trench markout between boring and fuel dispenser.




Clearing to the east of Cottage 7 to allow for GPR scan of possible fuel line signal. Vertical steel pipe identified to the east of Cottage 7 and adjacent to the signal.




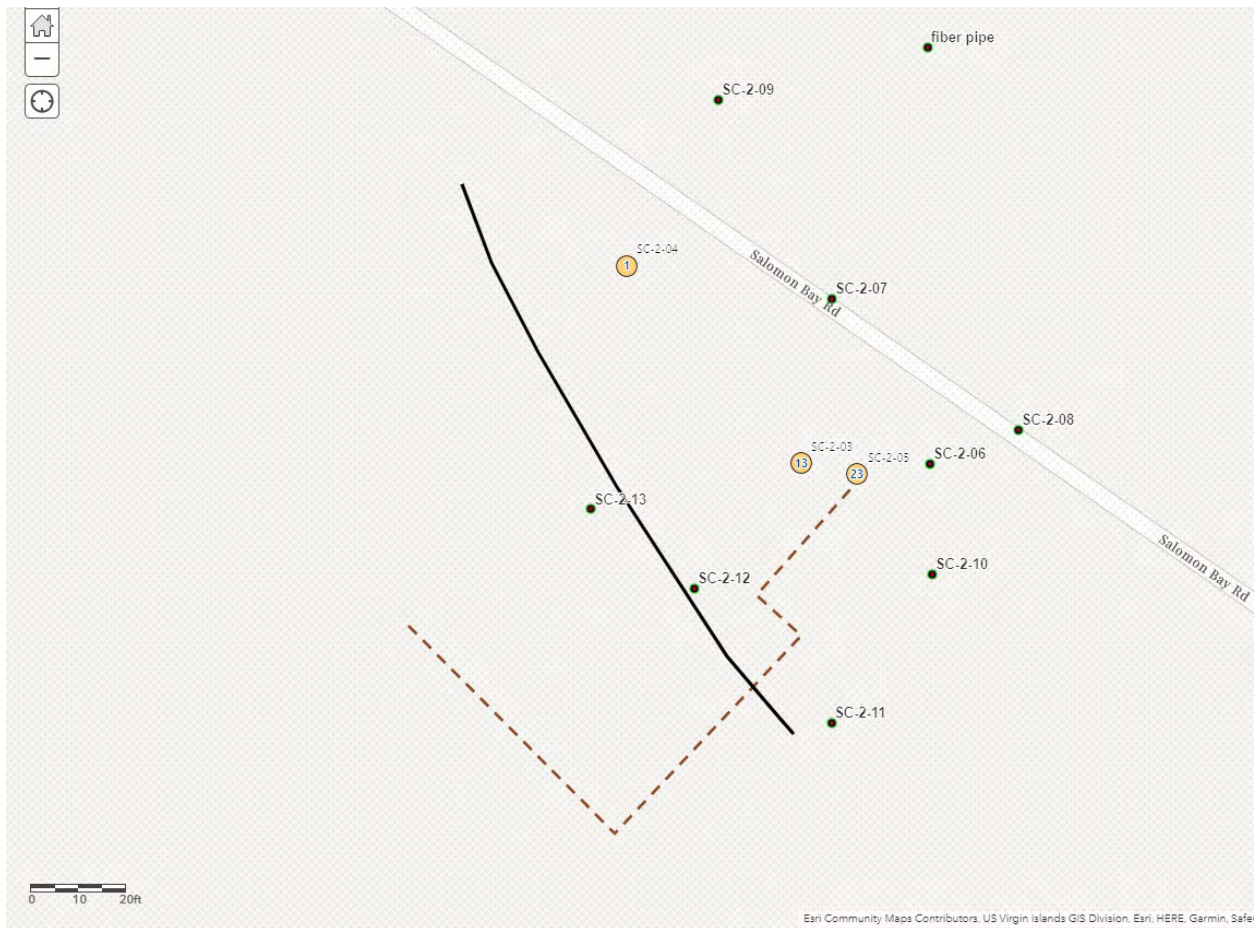
Alleged historical drilled well to the east of engineering and maintenance complex. Appears to be a 6-inch PVC casing filled with grout.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 10, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	16:50
<b>Weather:</b>	Morning: 70-90 deg F, Partly cloudy, calm Afternoon: 70-90 deg F, Partly cloudy, passing showers				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	None				
<b>Other Reportable Items:</b>	None				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	None			
<b>CBIA</b>	<b>Representatives:</b>	Jeff Lambert, Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	1. Cottage 7 2. Area 1 3. Area 2 asbestos pipe 4. Catchment Basin				
<b>Search Details:</b>	1. Cottage 7: On-Site dug along marked out fuel line. A horizontal, round, 3-ft diameter steel tank was discovered beneath and to the east of the air conditioning (AC) units. The tank is empty and rusted out on top at the fill port. Possible remote fill port piping extends around Cottage 7. Evidence of a release was not observed in soil around piping and tank. The AC units would need to be removed to remove the tank, and they also block access for drilling except on one side. 2. Area 1: Bidot located utilities within the drilling area. Bidot scanned the gravel pad for anomalies; clear evidence of buried items was not observed. 3. Area 2 asbestos pipe: Bidot, On-Site, and CBIA began tracing asbestos pipe in the G&L area. The search was limited to the west by flooded vaults. 4. Catchment: CBIA cleared area.				



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Groundwater Sampling</b>		
<b>Groundwater Samples Collected:</b>	No	
<b>Monitoring Wells In-Progress:</b>	MW-2-06, MW-2-07	
<b>Monitoring Wells Completed:</b>	None	
<b>Monitoring Wells Developed:</b>	None	
<b>Monitoring Wells Abandoned:</b>	None	
<b>Sample Names:</b>	None	
<b>Groundwater Notes:</b>	Groundwater observed at ~13 ft bgs in temporary piezometer at SC-2-06. A well will be installed here. Evidence of water was present at SC-2-07 and SC-2-09, and wells will be installed.	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	Yes	
<b>Borings In-progress:</b>	None	
<b>Borings Completed:</b>	SC-2-07 through SC-2-13 (7 borings), see map on next page	
<b>Borings Sampled:</b>	SC-2-07 at 8.5' and 12.5' SC-2-08 at 15', dup SC-2-101 SC-2-09 at 5' and 13.5' SC-2-10 at 13' and 17' SC-2-11 at 8', dup SC-2-102, MS/MSD SC-2-11 at 10' SC-2-12 at 8' SC-2-13 at 6.5'	
<b>Boring Notes:</b>	Area 2 ASTs: On-Site advanced borings SC-2-07 through SC-2-13. Evidence of contamination was observed at all but two locations. Near the tanks, contamination was observed to refusal. Evidence of petroleum contamination was observed at all but two locations. Near the tanks, contamination was observed to refusal, at around 8 ft bgs. At downgradient locations, contamination was observed above and around the assumed water table.	



Draft map of Area 2 AST borings. SC-2-06 through SC-2-13 were installed yesterday and today. The dashed line is the approximate AST piping, the black line is a suspected buried electrical line. The fuel pump is near SC-2-06.

<b>ISM Soil Sampling</b>	
<b>ISM Samples Collected:</b>	No
<b>Sample Names:</b>	Na
<b>ISM Notes:</b>	Na
<b>Lead Paint Sampling</b>	
<b>Lead Paint Samples Collected:</b>	No
<b>Lead Notes:</b>	NA
<b>Asbestos Sampling</b>	
<b>Asbestos Samples Collected:</b>	No
<b>Asbestos Notes:</b>	NA
<b>IDW Sampling</b>	

<b>IDW Samples Collected:</b>	No
<b>Sample Names:</b>	NA
<b>IDW Notes:</b>	Two soil drums, 1 water drum started for IDW.

### Photographs



UST uncovered to east and beneath AC units at Cottage 7. Hole at fill port circled on photo.





View inside cottage 7 UST.




Bidot tracing underground asbestos pipe in the grounds and landscaping area.




Drilling at SC-2-12 in Area 2.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 11, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	17:00
<b>Weather:</b>	Morning: 70-90 deg F, Partly cloudy, breezy, showers ; Afternoon: 70-90 deg F, Partly cloudy, breezy, showers				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	None				
<b>Other Reportable Items:</b>	None				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Shawn Mulligan			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss (working at Area 2 ASTs)				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	1. Area 1 asbestos pipe 2. Area 2 asbestos pipe 3. Area 3 asbestos pipe				
<b>Search Details:</b>	1. Area 1 asbestos pipe: On-Site and Bidot investigated and uncovered two possible asbestos pipes in Area 1. The pipes were not connected to networks. 2. Area 2 asbestos pipe: On-Site and Bidot continued clearing and tracing the NE of the engineering buildings. A vertical possible asbestos pipe was exposed and discovered to be a short section of pipe used to protect a valve on a steel pipe. The pipe was replaced on the valve and reburied. 3. Area 3 asbestos pipe: Bidot began surveying the aboveground possible asbestos pipe that was observed near the entrance to the landfill. The pipe was followed for ~200m; surveying will continue tomorrow.				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples Collected:</b>	No				
<b>Monitoring Wells In-Progress:</b>	None				



CANEEL BAY RESORT ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION DAILY PROGRESS REPORT		
Monitoring Wells Completed:		MW-2-06 MW-2-07 MW-2-09
Monitoring Wells Developed:		NA
Monitoring Wells Abandoned:		NA
Sample Names:	NA	
Groundwater Notes:	Groundwater measured at borings: SC-2-09: dtw = 9.31 ft bgs, possible trace LNAPL, petroleum odor SC-2-07: dtw = 5.9 ft bgs, possible trace LNAPL, petroleum odor SC-2-06: dtw = 10.7 ft bgs, visible LNAPL film, petroleum odor	
Discrete Soil Sampling		
Discrete Soil Samples Collected:		No
Borings In-progress:	NA	
Borings Completed:	SC-2-14 through SC-2-18 (5 borings)	
Borings Sampled:	SC-2-14 at 7.3' SC-2-15 at 2.8' SC-2-16-at 2.4' SC-2-17 at 9.5' and 20' SC-2-18 at 6.7'	
Boring Notes:	Evidence of petroleum contamination observed to refusal on rock on eastern side of upper ASTs. No evidence of contamination observed at western location SC-2-16. Evidence of petroleum contamination delineated to east along generator buildings at SC-2-18. Evidence of petroleum contamination observed from 5 ft bgs to refusal at 20 ft bgs adjacent to downslope (western) end of utility trench at edge of proposed drilling area.	



<b>ISM Soil Sampling</b>	
<b>ISM Samples Collected:</b>	No
<b>Sample Names:</b>	NA
<b>ISM Notes:</b>	NA
<b>Lead Paint Sampling</b>	
<b>Lead Paint Samples Collected:</b>	No
<b>Lead Notes:</b>	Na
<b>Asbestos Sampling</b>	
<b>Asbestos Samples Collected:</b>	No
<b>Asbestos Notes:</b>	Na
<b>IDW Sampling</b>	
<b>IDW Samples Collected:</b>	No
<b>Sample Names:</b>	Na
<b>IDW Notes:</b>	Na

## Photographs





Exposed possible asbestos pipe to NE of engineering and maintenance buildings. A short section of possible asbestos pipe was protecting a valve on a steel pipe.




Short sections of possible asbestos pipe uncovered in Area 1. Pipes were not connected to networks.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 12, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	16:00
<b>Weather:</b>	Morning: 70-90 deg F, Sunny, breezy Afternoon: 70-90 deg F, Sunny and breezy				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	4 coolers were shipped to ALS Global in Middletown, PA.				
<b>Delays:</b>	NA				
<b>Other Reportable Items:</b>	<p>VHB discussed the use of the ASTs with Griffith Hendrickson. According to Griffith, the ASTs were used for a short period following the 2017 hurricanes but the gasoline and smaller diesel AST have since been emptied. The larger diesel AST still contains fuel but there are plans to empty it. VHB observed oil/fuel within the secondary containment of the smaller diesel tank.</p> <p>Amanda Crawford (DOI) conveyed a request from CBIA that no interviews be conducted without CBIA attorneys present.</p>				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	None			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	<ol style="list-style-type: none"> <li>1. Cottage 7</li> <li>2. Area 2 asbestos pipe</li> <li>3. Area 3 asbestos pipe</li> <li>4. Catchment Basin</li> <li>5. Other Resort Areas</li> </ol>				
<b>Search Details:</b>	<ol style="list-style-type: none"> <li>1. Cottage 7: On-Site advanced borings SC-C7-01 - SC-C7-03 to the north and downslope of the UST. Evidence of petroleum contamination was not observed. A temporary piezometer was installed at SC-C7-01.</li> <li>2. Area 2 asbestos pipe: Bidot, On-Site, and CBIA continued tracing the underground asbestos storm water pipe network in Area 2 to its extents, except where prevented by flooded vaults.</li> <li>3. Area 3 asbestos pipe: Bidot traced the Area 3 aboveground asbestos pipe to where it went underground to the east of Little Caneel Beach.</li> </ol>				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
	4. Other Areas: VHB performed recon. of the Turtle Bay, Hawksnest, and Scott Beach areas for evidence of asbestos pipe. Possible asbestos sewer pipe was observed near Scott Beach.  5. Catchment Basin: VHB mapped out ISM DUs at the lower Catchment Basin.	
<b>Groundwater Sampling</b>		
<b>Groundwater Samples Collected:</b>	No	
<b>Monitoring Wells In-Progress:</b>	Surface completions for MW-2-06, MW-2-07, and MW-2-09 are planned for Monday.	
<b>Monitoring Wells Completed:</b>	NA	
<b>Monitoring Wells Developed:</b>	NA	
<b>Monitoring Wells Abandoned:</b>	NA	
<b>Sample Names:</b>	NA	
<b>Groundwater Notes:</b>	NA	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	Yes	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	SC-2-19 SC-2-20 SC-C7-01 SC-C7-02 SC-C7-03	
<b>Borings Sampled:</b>	SC-2-19 at 20' SC-2-20 at 15' SC-C7-01 at 5' SC-C7-02 at 5' SC-C7-03 at 6.6'	
<b>Boring Notes:</b>	Area 2 AST: On-Site advanced borings SC-2-19 and SC-2-20 along and adjacent to the utility trench that extends to the west and down the road from the AST area. Evidence of petroleum contamination was not observed at either boring.  Evidence of petroleum contamination was not observed near the Cottage 7 UST.	



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>		No
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>		No
<b>Lead Notes:</b>	NA	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>		No
<b>Asbestos Notes:</b>	NA	
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>		No
<b>Sample Names:</b>	NA	
<b>IDW Notes:</b>	4 drums of IDW soil onsite, 1 drum of IDW water.	


### Photographs




Example of apparent stormwater vault in Area 2 with connecting asbestos piping. Vault had been covered and filled with debris.




Sewer manhole near Scott Beach with possible asbestos piping.

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 13, 2021	<b>Time On-Site:</b>	08:00	<b>Time Off-Site:</b>	16:15
<b>Weather:</b>	Morning: 70-90 deg F, Partly Cloudy, humid, showers Afternoon: 70-90 deg F, Partly cloudy, humid, showers				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	NA				
<b>Other Reportable Items:</b>	NA				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	None			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss				
<b>Subcontractor(s):</b>	Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	1. Catchment Basin 2. Area 2 asbestos pipe				
<b>Search Details:</b>	1. Catchment Basin: VHB completed ISM surface soil sampling for pesticides at the Catchment Basin. Bidot marked out the GPR anomaly for excavation and scanned the previously unchecked areas of the lower Catchment Basin. No additional anomalies were identified. 2. Area 2 asbestos pipe: Bidot completed tracing the known asbestos pipe in Area 2. The pipes appear to drain to a partially below ground cistern. One pipe was traced to beneath the active water system cistern and could not be followed further.				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples Collected:</b>	No				
<b>Monitoring Wells In-Progress:</b>	Same as Friday; drillers were not on site.				
<b>Monitoring Wells Completed:</b>	NA				
<b>Monitoring Wells Developed:</b>	NA				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Monitoring Wells Abandoned:</b>	VHB measured groundwater at SC-C7-01; the piezometer was dry at ~11 ft bgs. This boring will be grouted.	
<b>Sample Names:</b>	NA	
<b>Groundwater Notes:</b>	Bidot surveyed completed borings and wells, including the dug wells. VHB measured groundwater at all wells. VHB measured groundwater at the Area 2 wells and dug wells.	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	No	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	NA	
<b>Borings Sampled:</b>	NA	
<b>Boring Notes:</b>	Cottage 7: Bidot surveyed completed borings and the UST location.	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	Yes	
<b>Sample Names:</b>	IA-CB-01 A/B/C (+MS/MSD) IA-CB-02 A/B/C IA-Ref-03 A/B/C	
<b>ISM Notes:</b>	<p>The perimeter of the lower Catchment Basin area was previously mapped out and the area was broken into a northern and a southern DU.</p> <p>A 1/4-acre area between Turtle Bay and Scott Beach was selected for IA-Ref-03 (arsenic). The area is only a mostly grassy south-facing hillside away from buildings.</p>	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	No	
<b>Lead Notes:</b>	NA	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>	No	
<b>Asbestos Notes:</b>	NA	
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>	No	



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Sample Names:</b>	NA	
<b>IDW Notes:</b>	NA	

### Photographs



View of the partially below-ground cistern into which the Area 2 stormwater pipes appear to drain.





View of Area 2 stormwater vault and active water system cistern, behind. Asbestos piping was traced beneath the cistern and could not be followed further.






View of IA-Ref-03, situated on a grassy hillside between Turtle Bay and Scott Beach.





Arsenic reference decision unit location.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 15, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	16:15
<b>Weather:</b>	Morning: 70-90 deg F, Sunny, humid Afternoon: 70-90 deg F, Partly cloudy, passing showers				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	NA				
<b>Delays:</b>	FedEx deliveries of groundwater sampling supplies and bottles were delayed. Delivery is scheduled for Tuesday. On-Site's drilling crew was delayed in arriving at the Site in the morning and had to leave early, limiting drilling work that could be completed.				
<b>Other Reportable Items:</b>	NA				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Steve Mitchell			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss, Jason Hooper, Tom Halter				
<b>Subcontractor(s):</b>	Bidot, On-Site				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	Area 2 & 3 asbestos pipe Area 1 Other Resort Areas Surface Soil reference areas				
<b>Search Details:</b>	Area 2 & 3 asbestos pipe: Bidot and On-Site attempted to locate the asbestos pipe traced from Area 3 to near Area 2. The area was scanned by GPR and a trench was excavated adjacent to a road cut that appeared to be in line with the pipe. The asbestos pipe was not located. Other Resort Areas: Bidot traced a possible asbestos sewer pipe from the previously identified manhole near Scott Beach. VHB collected samples of the pipe material for asbestos analysis. Work will continue here on Tuesday.				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples Collected:</b>	No				
<b>Monitoring Wells In-Progress:</b>	Area 1: SC-1-01 was the deepest boring, but appeared dry. A temporary piezometer was installed and will be checked for water on Tuesday.				
<b>Monitoring Wells Completed:</b>	NA				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Monitoring Wells Developed:</b>	NA	
<b>Monitoring Wells Abandoned:</b>	NA	
<b>Sample Names:</b>	NA	
<b>Groundwater Notes:</b>	NA	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	Yes	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	SC-1-01 through SC-1-03	
<b>Borings Sampled:</b>	SC-1-01 at 0.5' (+MS/MSD) and 17' SC-1-02 at 0.5' and 4.3' (+ duplicate) SC-1-03 at 0.5' and 4'	
<b>Boring Notes:</b>	<p>Area 1: On-Site advanced three borings below the gravel pad, adjacent to the wastewater treatment plant. The northern boring (SC-1-01) was advanced to 17 ft bgs. The two southern borings (SC-1-02 and SC-1-03) were refused on rock at about 4 ft bgs.</p> <p>No evidence of contamination was observed in soil cores.</p> 	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	Yes	

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>Sample Names:</b>	IA-REF-04	
<b>ISM Notes:</b>	IA-REF-04 was collected in a grassy/wooded area between Cottage 7 and Caneel Beach. 	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	Yes	
<b>Lead Notes:</b>	4 samples collected (L-09 through L-12) from Estate restaurant and Turtle Bay	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>	Yes	
<b>Asbestos Notes:</b>	46 samples collected (1 through 46) from Estate restaurant, Estate house, Estate event room, Turtle Bay, and Hawksnest	
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>IDW Notes:</b>	NA	



## Photographs



VHB sampling the possible asbestos sewer pipe near Scott Beach.





Bidot tracing the possible asbestos pie near Scott Beach.






View of possible asbestos pipe traced from Area 3 as it goes underground. Additional pipes and conduits follow and/or cross the pipe.

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 16, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	17:20
<b>Weather:</b>	Morning: 70-90 deg F, Sunny, breezy Afternoon: 70-90 deg F, Sunny, breezy				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	A hydraulic line on On-Site's drill rig failed while moving from the wastewater treatment plant. On-Site found a replacement hose on St. John and repaired the rig. However, the rig was down for several hours, limiting productivity. Soil stained by hydraulic oil was removed and containerized for disposal.				
<b>Other Reportable Items:</b>	NA				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Steve Mitchell			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss, Jason Hooper, Tom Halter				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	1. Area 1 2. Other Resort Areas				
<b>Search Details:</b>	1. Area 1: VHB checked the piezometer at SC-1-01 for groundwater and found it to be dry. On-Site attempted to drill deeper at that location but were only able to advance an additional 2 feet. VHB will check the piezometer again on Wednesday. 2. Other Resort Areas: Bidot and On-Site attempted to continue to attempt to locate suspected asbestos pipes at Scott Beach (such as the one in the photograph). The pipe has been located to the north towards Turtle Bay, but efforts have been unsuccessful to the south, along Scott Beach.				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples Collected:</b>	No				
<b>Monitoring Wells In-Progress:</b>	Surface completions have not been finished for any well due to delays.				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
	MW-2-21 will be installed on Wednesday.	
<b>Monitoring Wells Completed:</b>	MW-2-22 was installed to the north of the former gift shop	
<b>Monitoring Wells Developed:</b>	MW-2-06 (slow to recharge, low-flow sampling may not be possible at this location) MW-2-07 (recharged fully) MW-2-09 (recharged fully)	
<b>Monitoring Wells Abandoned:</b>	NA	
<b>Sample Names:</b>	None	
<b>Groundwater Notes:</b>		
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	Yes	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	SC-2-21 SC-2-22	
<b>Borings Sampled:</b>	SC-2-21 at 15' SC-2-22 at 18'	
<b>Boring Notes:</b>	CBIA cleared the area to the north of the former gift shop. Bidot located utilities in the same area.	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	Yes	
<b>Lead Notes:</b>	1 sample (L-13) from Cottage Point	
<b>Asbestos Sampling</b>		
<b>Asbestos Samples Collected:</b>	Yes	
<b>Asbestos Notes:</b>	44 samples (47 through 91) from Scott Beach and Cottage Point	


<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
<b>IDW Sampling</b>		
<b>IDW Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>IDW Notes:</b>	NA	


### Photographs




Suspected asbestos pipe in a manhole near Scott Beach. Pipe was sampled.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 17, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	17:30
<b>Weather:</b>	Morning: 70-90 deg F, Sunny, breezy Afternoon: 70-90 deg F, Mostly sunny, passing showers				
<b>Safety Briefing Performed:</b>	No				
<b>Samples Shipped:</b>	5 sample coolers were shipped to ALS Global in Middletown, PA				
<b>Delays:</b>	NA				
<b>Other Reportable Items:</b>					
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Steve Mitchell			
<b>CBIA</b>	<b>Representatives:</b>	Griffith Hendrickson			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss, Jason Hooper, Tom Halter				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	<ol style="list-style-type: none"> <li>Asbestos pipe survey</li> <li>Catchment Basin</li> <li>Clean fill source</li> </ol>				
<b>Search Details:</b>	<ol style="list-style-type: none"> <li>Other Resort Areas: Bidot performed recon of buildings/areas from Cottage 7 south to the Terrace Restaurant to search for evidence of possible asbestos pipe. Bidot identified manholes at Cottage 7 that appear to be in line with those at Scott Beach. Due to flooding, the pipes could not be inspected. Piping appears to be at 10-12 ft bgs, below the excavator limits.</li> <li>Catchment Basin: On-Site excavated the GPR anomaly at the lower Catchment Basin and uncovered uneven/unfinished concrete at around 1 ft bgs. Concrete appears to have been dumped/washout, possibly from the Catchment Basin concrete placement, and not a built feature. Excavating below the concrete was not possible with the available equipment. Excavating extended to one side where the edge of concrete met rock. Evidence of a release (staining, odor, PID) was not observed within the excavation extents.</li> <li>Clean fill source: VIIS identified potential clean fill sources. VHB contacted Sleepy Trucking, which is based on St John. The contact stated that they have clean topsoil in a stockpile at their yard on St. John that they will allow VHB to sample. VHB will arrange to collect</li> </ol>				

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
	the sample this week. VHB also contacted Paris Trucking, but the owner stated that they only supply crushed quarry rock, which is not a similar material to on-site soil.	
<b>Groundwater Sampling</b>		
<b>Groundwater Samples Collected:</b>	Yes	
<b>Monitoring Wells In-Progress:</b>	NA	
<b>Monitoring Wells Completed:</b>	MW-2-21, finished surface completions at all Area 2 wells	
<b>Monitoring Wells Developed:</b>	MW-2-22 MW-2-21	
<b>Monitoring Wells Abandoned:</b>	MW-1	
<b>Sample Names:</b>	MW-2-09 MW-2-07 Dug Well 1 Dug Well 2	
<b>Groundwater Notes:</b>	MW-2-07, MW-2-09, and the Dug Wells were sampled for: VOCs, lead, and PAHs, as planned, as well as Area 2 COCs barium, arsenic, and pesticides	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	No	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	NA	
<b>Borings Sampled:</b>	NA	
<b>Boring Notes:</b>	NA	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	Yes	
<b>Lead Notes:</b>	3 samples collected (L14 to L16) from Caneel Beach	

CANEEL BAY RESORT ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION DAILY PROGRESS REPORT		
Asbestos Sampling		
Asbestos Samples Collected:	Yes	
Asbestos Notes:	64 samples collected (92 through 156) from Caneel Beach, Main Building, and Cottage Point	
IDW Sampling		
IDW Samples Collected:	No	
Sample Names:	NA	
IDW Notes:	NA	

### Photographs



VHB groundwater sampling at MW-2-09.







Bidot rescanning the excavated anomaly at the lower Catchment Basin with GPR.




Monitoring Well MW-1 abandoned in-place.

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	November 18, 2021	<b>Time On-Site:</b>	07:00	<b>Time Off-Site:</b>	17:15
<b>Weather:</b>	Morning: 70-90 deg F, Breezy, mostly cloudy, showers Afternoon: 70-90 deg F, Partly cloudy, humid, showers				
<b>Safety Briefing Performed:</b>	No				
<b>Samples Shipped:</b>	NA				
<b>Delays:</b>	Na				
<b>Other Reportable Items:</b>	<ol style="list-style-type: none"> <li>VHB and Steve Mitchell met with Nigel Fields to discuss the status of the work and preliminary findings. Bidot inquired about utility plans for the Site. VHB asked Jeff Lambert if there were utility plans in the former engineering office and whether they could be reviewed. Jeff indicated that VHB/Bidot could review the plans but mentioned that most of them had been moved to an office in Burlington, MA.</li> <li>Jeff Lambert asked if VHB could provide a summary of the work performed, including level-of-effort, labor hours, etc. VHB responded that a summary could not come through VHB, but that we would pass the request along.</li> <li>NPS identified a broken backhoe, apparently related to CBIA's operations, near the grounds and landscaping buildings in Area 2. NPS observed evidence of petroleum release to the soil from the backhoe.</li> </ol>				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	Steve Mitchell			
<b>CBIA</b>	<b>Representatives:</b>	NA			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Deede			
<b>Other VHB Personnel:</b>	Ben Bliss, Tom Halter, Jason Hooper				
<b>Subcontractor(s):</b>	On-Site, Bidot				
<b>Uncertain Items</b>					
<b>Areas/Items Searched:</b>	<ol style="list-style-type: none"> <li>Catchment Basin</li> <li>Asbestos piping survey</li> </ol>				
<b>Search Details:</b>	<ol style="list-style-type: none"> <li>Catchment Basin: On-Site backfilled the GPR anomaly excavation.</li> <li>Other Resort Areas: Bidot performed recon of buildings from the Terrace restaurant south to Little Caneel Beach for evidence of asbestos pipes but did not identify any in those areas. Bidot identified a manhole to the west of the tennis courts, possibly connected to the earlier investigated network. On-Site exposed cementitious pipe on either side of the manhole for inspection.</li> </ol>				



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>		
	Bidot/VHB reviewed available utility plans in the former engineering office. A 1964 plan indicated proposed transite (asbestos-containing) water pipe running north-south through the Site. A full review of the files was not possible due to time constraints.	
<b>Groundwater Sampling</b>		
<b>Groundwater Samples Collected:</b>	Yes	
<b>Monitoring Wells In-Progress:</b>	NA	
<b>Monitoring Wells Completed:</b>	NA	
<b>Monitoring Wells Developed:</b>	NA	
<b>Monitoring Wells Abandoned:</b>	On-Site abandoned temporary piezometers and closed remaining boreholes.	
<b>Sample Names:</b>	MW-2-06 MW-2-21 MW-2-22	
<b>Groundwater Notes:</b>	Groundwater elevation measurements were taken at Area 2 monitoring wells and dug wells.	
<b>Discrete Soil Sampling</b>		
<b>Discrete Soil Samples Collected:</b>	No	
<b>Borings In-progress:</b>	NA	
<b>Borings Completed:</b>	NA	
<b>Borings Sampled:</b>	NA	
<b>Boring Notes:</b>	NA	
<b>ISM Soil Sampling</b>		
<b>ISM Samples Collected:</b>	No	
<b>Sample Names:</b>	NA	
<b>ISM Notes:</b>	NA	
<b>Lead Paint Sampling</b>		
<b>Lead Paint Samples Collected:</b>	Yes	
<b>Lead Notes:</b>	Collected 3 samples (L17 to L19)	

CANEEL BAY RESORT ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION DAILY PROGRESS REPORT		
Asbestos Sampling		
Asbestos Samples Collected:	Yes	
Asbestos Notes:	Collected 65 asbestos bulk samples (157 through 222) from Little Caneel Bay, dive shop/pump building, Sugar Mill Restaurant, Garden View) and 2 asbestos in soil samples (As-01 and As-02) from Area 1	
IDW Sampling		
IDW Samples Collected:	Yes	
Sample Names:	IDW-Water: composite of two purge/decon water drums IDW-Soil: composite of five soil drums	
IDW Notes:	Four soil drums and one water drum are staged in maintenance area. One drum remains to be moved to the staging area. Drums are labeled and were sampled.	

### Photographs



1964 Site Plan indicating a proposed transite (asbestos-containing) water line running north-south through the site. Active water lines observed during the course of work have been PVC.





Cementitious pipe exposed at a manhole to the west of the tennis courts. Pipe is potentially connected to the previously investigated network.



A broken backhoe in the grounds and landscaping area in Area 2 has leaked petroleum fluids to the soil.



## Appendix 3 – Calibration Sheets

Phone: (802) 229-4600  
Fax: (802) 229-5876  
www.vhb.com

\\whb\gbl\proj\Montpelier\58345.21 NPS Caneel Bay Resort\Reports\ECA Planning Documents\EECA SAP\Appendices\Appendix I  
- Field Forms\PID calibration sheet.doc



VHB  
100 State Street, Suite 600  
Montpelier, VT 05602

Phone: (802) 229-4600

YSI CALIBRATION SHEET

www.VHB.com

Job Name:		Caneel Bay Resort			Job #:					YSI #:					Serial #:		SD100 S72	
Brand of Standard		-----			YSI	Oakton	Oakton	Oakton	Oakton	YSI	YSI	YSI	Oakton					
Lot #		-----				16H998	16H998	16F003	16E539	16E974	16F995							
Expiration Date		-----				AUG-22	AUG-22	SUN-23	MAY-23	MAY-23	03-22							
Date	Time	Initials	YSI Temp. °C	Specific Cond. 1.413 ms/cm	Specific Cond. ms/cm	pH 7.00	pH 4.01	pH 10.00	ORP-Zobell Solution (200-275mV)	Barometric Pressure (mmHg)	100% D.O.		Zero O <sub>2</sub> Solution (mg/L)					
											(%)	(mg/L)						
Calibration	11/17/21	0800	BRB	27.97	1.413	—	7.00	4.01	10.00	234.2400	787.2	102.5	NR	NA				
End of Day Check																		
Calibration	11/18/21	0716	BND	27.78	1.413	—	7.00	4.01	10.00	240.00	785.8							
End of Day Check																		
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Calibration																		
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Calibration																		
End of Day Check																		
Calibration																		
End of Day Check																		

NR =  
Not recorded

NIST Certified Thermometer Check (Date/Results): \_\_\_\_\_ (must be completed at least once per year)

**VHB**  
**100 State Street, Suite 600**  
**Montpelier, VT 05602**

**Phone: (802) 229-4600**  
**Fax: (802) 229-5876**  
**www.vhb.com**

## TURBIDITY METER CALIBRATION SHEET


[illegible]

\\nhb\gb\proj\Montpelier\58345.21 NPS Caneel Bay Resort\Reports\EECA Planning Documents\EECA SAP\Appendices\Appendix 1 - Field Forms\Turbidity Calibration sheet.doc

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## **Attachment B-5 - Additional January 2022 Field Notes**

<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	January 12, 2022	<b>Time On-Site:</b>	08:30	<b>Time Off-Site:</b>	15:45
<b>Weather:</b>	Morning: 70-90 deg F, Sunny ; Afternoon: 70-90 deg F, Sunny				
<b>Safety Briefing Performed:</b>	Yes				
<b>Samples Shipped:</b>	None				
<b>Delays:</b>	No delays.				
<b>Other Reportable Items:</b>	Jeff Lambert was present at the Caneel Bay entrance this morning. VHB let him know that groundwater sampling would be occurring in the Resort today and tomorrow. No further discourse was had.				
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	NA			
<b>CBIA</b>	<b>Representatives:</b>	Jeff Lambert			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Bliss			
<b>Other VHB Personnel:</b>	NA				
<b>Subcontractor(s):</b>	NA				
<b>Groundwater Sampling</b>					
<b>Groundwater Samples In-Progress:</b>	MW-2-06				
<b>Groundwater Samples Completed:</b>	MW-2-07, MW-2-09, Dug Well 1				
<b>Sample Names:</b>	MW-2-07, MW-2-09: sampled for VOCs and PAHs Dug Well 1: sampled for VOCs, PAHs, and pesticides				
<b>Groundwater Notes:</b>	<p>VHB measured groundwater levels before sampling. Groundwater was present in every well, though water levels were generally 1-foot lower than in November.</p> <p>MW-2-06 was purged dry and had slow recharge. Samples will be collected from the well tomorrow morning with no purging. This methodology was also used for this well during the previous mobilization.</p> <p>MW-2-21, MW-2-22, and Dug Well 2 will also be sampled tomorrow.</p>				
<b>IDW</b>					
<b>IDW Notes:</b>	Purge water generated from groundwater sampling was placed in labeled drums (still on site from the previous mobilization) at the end of the day.				

## Photographs




Groundwater sampling set-up at MW-2-06.



Groundwater sampling at Dug Well 1.



<b>CANEEL BAY RESORT</b> <b>ENGINEERING EVALUATION/ COST ANALYSIS SITE INVESTIGATION</b> <b>DAILY PROGRESS REPORT</b>					
<b>Date:</b>	January 13, 2022	<b>Time On-Site:</b>	07:20	<b>Time Off-Site:</b>	13:00
<b>Weather:</b>	Morning: 70-90 deg F, Sunny with periods of intense rain. ; Afternoon: 70-90 deg F, Sunny with periods of rain.				
<b>Safety Briefing Performed:</b>	N/A, only one employee on-site				
<b>Samples Shipped:</b>	None, will ship tomorrow.				
<b>Delays:</b>	Heavy rain showers forced me to bring all of the non-waterproof equipment into the car. These rain showers lasted about 15-20 minutes. The battery of the peristaltic pump died while sampling Dug Well 2. I used the car battery to power the pump and collect the remaining samples.				
<b>Other Reportable Items:</b>					
<b>Personnel Onsite</b>					
<b>National Park Service (NPS)</b>	<b>Representatives:</b>	NA			
<b>CBIA</b>	<b>Representatives:</b>	None			
<b>Contractor: VHB</b>	<b>Reporter:</b>	Ben Bliss			
<b>Other VHB Personnel:</b>	NA				
<b>Subcontractor(s):</b>	NA				
<b>Groundwater Sampling</b>					
<b>Monitoring Wells Completed:</b>	MW-2-21, MW-2-22, Dug Well 2, and MW-2-06.				
<b>Sample Names:</b>	MW-2-21 MW-2-22 and its duplicate, MW-104 Dug Well 2 and its MS/MSD MW-2-06				
<b>Groundwater Notes:</b>	Duplicate collected from MW-2-22, MS/MSD collected from Dug Well 2. The water from MW-2-06 was very turbid. I purged a little bit off before sampling, but had to sample before the well went dry. These samples, therefore, may contain particulates.				
<b>IDW Sampling</b>					
<b>IDW Samples Collected:</b>	No				
<b>Sample Names:</b>					
<b>IDW Notes:</b>	VHB provided On-Site Environmental with all IDW analytical data and requested advance notice of drum removal.				

## Photographs



Groundwater sampling set-up at MW-2-22 location.



11/17/21 Caneel Bay BMD

0700 VNB/Steve M. Kelly/ B. Dot note  
B. Dot to start search areas  
for other signs of asbestos pipe  
will start with collage 7 & waste 5  
VNB begins g.w. sampling  
in Area 2

Ship out 5 coolers to 4LS w/  
soil samples

0800 On-site on site for chllg  
wells at former visitor center  
then proceed to well completions

~1200 <sup>BMD</sup> 11/17

B. Dot locates rainholes between Scott  
Beach & Collage 7. Most are flooded so  
could 2 buried soil appear to be  
in the w/ Scott Beach Asbestos Pipe

~1200 <sup>BMD</sup> 11/17 B. Dot returns S to Terrace Rest.  
Does not identify evidence of Asbestos  
pipe

~1200 B. Dot/On-site to Calhoun  
begin excavating around  
concrete @ around 1' deep  
appears to be unfinished/interior  
rounded at one end. Exhls 2' of  
GPR network exists.

11/12/22

Caneel Bay BRB

0800 picked up coolers and boxes from  
NPS, got ice and empty coolers from  
maintenance yard

0830 met w/ Jeff on-site → he asked  
me to call him at the end of each  
day to update him on what I  
did. BRB on site

0900 calibrated PSI and turbidimeter,  
took inventory

0945 took round of WL

1030 went to get/ find buckets at  
maintenance, got lunch while it  
was down there already

11:00 start of sampling

11:50 MW 56-2-06 purged dry. will take  
grab sample once it recharges  
off site. Sampled MW-2-7, MW-2-  
and dug well 1. Put purge water  
in IDW drums.

4/3/22

Caneel Bay

BRB

41

0700 got ice from maintenance yard  
 0720 on-site (BRB) to begin sampling  
 G-W at MW-2-21, MW-2-22, Dug  
 well 2, and MW-2-06.

Dug (MW-104) will be collected  
 at MW-2-22 and MSI/MSD will  
 be collected from Dug well 2.  
 calibrated PSI ? turbidimeter

0810 very intense rain required me to  
 get equipment to safety.

0830 rain stopped

1150 per pump battery died, so I used  
 the car to finish up sampling

1240 MW-2-06 was quite turbulent  
 when I was pumping on it. I  
 tried to purge it for a little  
 bit but didn't want it to  
 run dry again. so the samples  
 are a little sediment-rich.

1300 off site

*Rite in the Rain*



Well ID: MW-2-06

Date: 1/12/22

Sampler: BR 3

Time on site: 11:20

Description of measuring point (MP) Toe Depth to water below MP (ft): 11.16

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 0.95 PID Headspace (ppmV): \_\_\_\_\_

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: 150 (gpm) ~~ml/cm<sup>2</sup>~~

Parameter equipment: YSI, Turbiditymeter

[illegible]

Purge Water Disposal Method Drum Comments (e.g. color / odor): 1



Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-06

Date: 1/13/22

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 12:40

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	8260D	
2	A	NA	8082	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

Well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BND

Pumping Rate: 600 ml/min Volume removed: 1.25

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-06

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Time off site: \_\_\_\_\_

Well ID: MW-2-67

Project #: 58345.21

Date: 1/12/22

Sampler: 13R13

Weather Conditions: Sunny, 80°F

Time on site: 12:05

Description of measuring point (MP) Toc Depth to water below MP (ft): 6.45

Total well depth (ft): 17.43 Well diameter (in): 2" Length of water column in well (ft): 10.98

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 1.76 PID Headspace (ppmV):

2. PURGING DATA: Method: fire pump Stabilized intake depth: 13

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: 150 (gpm) 14.4 min

Parameter equipment: Y5I, turbidimeter

[illegible]

Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-07

Date: 1/12/22

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 1235

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	8260D	
2	A	NA	8082	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BVD

Pumping Rate: 600 ml/min Volume removed: ~8 gal

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-07

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---

Time off site: \_\_\_\_\_

Well ID: MW-2-09

Date: 1/12/22

Sampler: BRB

Time on site: 12:56

Description of measuring point (MP) 70C Depth to water below MP (ft): 8.85

Total well depth (ft): 19.22 Well diameter (in): 2" Length of water column in well (ft): 10.37

Gallons per foot<sup>1</sup>: 6.16 Well volume (gal): 1.66 PID Headspace (ppmV):

2. PURGING DATA: Method: Puri-pump Stabilized intake depth: 16'

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: 150 (gpm) ml/min

Parameter equipment: YSI, turbidimeter[illegible]

Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-09

Date: 11/12/22

3. SAMPLE COLLECTION: Method: Peri pump Sample Time: 1256 1335

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	8260 D	
2	A	NA	8092	
<del>2</del>	<del>A</del>	<del>NA</del>	<del>8092</del>	
4	1			

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/16/21 Personnel: BND

Pumping Rate: 600 ml/min Volume removed: 7 gal

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-09

Time off site: \_\_\_\_\_



Well ID: Dug well-1

Date: 1/12/22

Sampler: 13K13

Time on site: 1915

Parameter equipment: YSL, turbidimeter

Purge Water Disposal Method Drum Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: Dug well 1

Date: 1/12/22

3. SAMPLE COLLECTION: Method: peri pump Sample Time: 1440

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	8260 D	
2	A	NA	8082	
2	A	NA	8081	
1	P	HNO3	arsenic, barium, lead 6020 B	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: \_\_\_\_\_ Personnel: \_\_\_\_\_

Pumping Rate: \_\_\_\_\_ Volume removed: \_\_\_\_\_

General drawdown/ well pumped dry? \_\_\_\_\_

Comments: Sample ID = Dug well 1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Time off site: \_\_\_\_\_

Ground Water Monitoring Well Sample Collection Record

Well ID: Dugwell 2

Project Name: Caneel Bay Resort Site

Project #: 58345.21

Date: ~~1/13/22~~ 1/13/22

Site Location: Virgin Islands National Park

Sampler: BRB

Weather Conditions: overcast, threat of rain

Time on site: 11:10

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) edge of well Depth to water below MP (ft): 4.80

Total well depth (ft): ~ Well diameter (in): ~ Length of water column in well (ft): ~

Gallons per foot<sup>1</sup>: ~ Well volume (gal): ~ PID Headspace (ppmV): ~

2. PURGING DATA: Method: peri-pumps Stabilized intake depth: ~

Purge Volume @ ~ well volume: ~ (gal) Purge Rate: 150 (gpm) ml/min

Parameter equipment: YSI, turbidimeter

Time	Depth (ft)	Volume Removed (L)	Flow Rate (mL/min)	Temp (deg C)	Spec Cond (uS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turb. (NTU)
11:15	4.80	0	0	Start	----	----	----	----	----
11:20	4.80	0.75	150	71.5	9345	41.5	7.62	62.7	5.34
11:25	4.80	1.5	150	71.6	9318	42.1	7.61	63.1	4.83
11:30	4.80	2.25	150	71.7	9297	41.3	7.62	62.6	4.50
Sampled at 11:40									
Sampled at for VOC, PAH, & Pest, metals									
MS/MSD collected									

Purge Water Disposal Method Drum Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: Dug well 2

Date: 1/13/21

3. SAMPLE COLLECTION: Method: peri-pump

Sample Time: 11:40

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	H <sub>2</sub> L	8266 D	
2	A	A	8082	
2	A	A	8081	
1	P	HNO <sub>3</sub>	arsenic, barium, lead 6020 D	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: \_\_\_\_\_ Personnel: \_\_\_\_\_

Pumping Rate: \_\_\_\_\_ Volume removed: \_\_\_\_\_

General drawdown/ well pumped dry? \_\_\_\_\_

Comments: Sample ID = Dug well 2 MS/MSP collected here

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Time off site: \_\_\_\_\_

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Well ID: MW-2-21

Date: 11/13/22

Sampler: BRB

Time on site: 0815

Description of measuring point (MP) TOC Depth to water below MP (ft): 3.63

Total well depth (ft): 15.43 Well diameter (in): 2" Length of water column in well (ft): 11.8

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 1.88 PID Headspace (ppmV): \_\_\_\_\_

Purge Volume @ \_\_\_\_\_ well volume: \_\_\_\_\_ (gal) Purge Rate: \_\_\_\_\_ (gpm)

Parameter equipment: turbidimeter, YSI

} w/in 10%

Sampled at	0900	for	Voc	PAH, $\frac{1}{2}$	Pest, $\frac{1}{2}$	Barren
------------	------	-----	-----	--------------------	---------------------	--------

\* turbidity was high for some reason, but consistently so (within 1000 for 15 min).

Purge Water Disposal Method Drum Comments (e.g. color / odor):



Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-21

Date: 11/13/22

3. SAMPLE COLLECTION: Method: peri-pump Sample Time: 0900

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	8260D	ALS
2	A	NA	8082	↓
2	A	NA	8081	
1	P	HNO3	Barium 6020 B	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/17/21 Personnel: BLB

Pumping Rate: 600 ml/min Volume removed: 2.25

General drawdown/ well pumped dry? dry

Comments: Sample ID = MW-2-21

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Time off site: \_\_\_\_\_

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-22

Project Name: Caneel Bay Resort Site

Project #: 58345.21

Date: 1/13/22

Site Location: Virgin Islands National Park

Sampler: BRB

Weather Conditions: Sunny, 80°F

Time on site: 0932

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP): TOC Depth to water below MP (ft): 2.98

Total well depth (ft): 18.28 Well diameter (in): 2" Length of water column in well (ft): 15.3

Gallons per foot<sup>1</sup>: 0.16 Well volume (gal): 2.44 PID Headspace (ppmV):       

2. PURGING DATA: Method: Pure pump Stabilized intake depth: 15'

Purge Volume @        well volume:        (gal) Purge Rate:        (gpm)

Parameter equipment: YSI, turbidimeter

Time	Depth (ft)	Volume Removed (L)	Flow Rate (mL/min)	Temp (deg C)	Spec Cond (uS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turb. (NTU)
093540	2.98	0	0	Start	----	----	----	----	----
0945	4.11	0.75	150	74.9	10669	2.0	7.04	-72.7	31.7
0950	3.92	1.5	150	75.2	10682	2.0	7.02	-79.5	13.3
0955	3.81	2.25	150	75.2	10686	2.0	7.01	-80.7	9.26
1000	3.80	3.00	150	75.3	10700	1.7	7.00	-81.3	4.78
1005	3.73	3.75	150	75.6	10686	1.6	7.00	-84.1	4.54
Sampled at 1010									
Dup (MW-104) collected at 1200									

} below 10 NTU

Purge Water Disposal Method Drum Comments (e.g. color / odor):

Ground Water Monitoring Well Sample Collection Record

Well ID: MW-2-22

Date: 1/13/22

3. SAMPLE COLLECTION: Method: per pump Sample Time: 1010

Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	C	HCL	VOC <del>8021</del> 8260 D	ALS
2	AN	NA	PAH 8082	
2	AN	NA	8091	

Chain-of-Custody #: \_\_\_\_\_

Shipper ID #: \_\_\_\_\_

<sup>1</sup>well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

1 Gallon = 3.785 Liters

4. DEVELOPMENT INFORMATION:

Date developed: 11/17/21 Personnel: BRB

Pumping Rate: 600 ml/min Volume removed: \_\_\_\_\_

General drawdown/ well pumped dry? \_\_\_\_\_

Comments: Sample ID = MW-2-22 3 MW-104 (Dup)  
↳ 1200

Time off site: \_\_\_\_\_

### Water Level Measurement Record

Project Name: Caneel Bay Resort Site

Project #: 58345.21

Site Location: Virgin Islands National Park (VIIS)

Date: 1/12/22

Weather Conditions: Sunny, 75°F

Time on Site: 0930

Personnel: BRB

Location	Time	Depth to Water (ft. btoc)	Observations
<del>MW-1</del> mw-2-06	0947	11.16	
mw-2-07	0954	6.45	
mw-2-09	1000	8.85	
mw-2-21	1013	3.64	
mw-2-22	1018	2.80	
Dug well 1	1030	~4.80	
Dug well 2	1024	~4.80	

Project Name: CBR Site

Project #: 58345.21

Initials: \_\_\_\_\_

Date: \_\_\_\_\_

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VHB

100 State Street, Suite 600  
Montpelier, VT 05602

Phone: (802) 229-4600

## YSI CALIBRATION SHEET

www.VHB.com

Job Name:		Cancel Bay Resort		Job #:		YSI #:		Serial #:		20C100376			
Brand of Standard		YSI	Oakton	Oakton	Oakton	Oakton	Oakton	YSI	YSI	Oakton			
Lot #			16H999	16H999	16F003	16E534	16E974	166957					
Expiration Date			04-22	08-22	06-23	05-23	05-23	04-22					
Date	Time	Initials	YSI Temp. - °F	Specific Cond. 1.413 ms/cm	Specific Cond. ms/cm	pH 7.00	pH 4.01	pH 10.00	ORP-Zobell Solution (200-275mV)	Barometric Pressure (mmHg)	100% D.O. (%)	(mg/L)	Zero O <sub>2</sub> Solution (mg/L)
Calibration	1/12/22	0900	BRB	73.0	1.413	—	7.00	4.01	10.00	240.0	100%	NR	NA
End of Day Check	1/13/22	0730	BRB	72.1	1.413	—	7.00	4.01	10.00	240.0	101%	NR	NA
Calibration													
End of Day Check													
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NIST Certified Thermometer Check (Date/Results): (must be completed at least once per year)

P:\STANDARD\JO Forms\YSI calibration sheet 021016.doc

Notes: Calibration order is left to right on chart. The optimum pH mV range for pH7 is -70 to +70 after calibration.

AR 004582



VHB  
100 State Street, Suite 600  
Montpelier, VT 05602

Phone: (802) 229-4600  
Fax: (802) 229-5876  
www.vhb.com

TURBIDITY METER CALIBRATION SHEET						
Job Name: Caneel Bay Resort Site					Job #: 58345.21	
Equipment ID: Hach 2100 Q Pine					Serial #: 19100C071219	
Brand of Standard			Hach	Hach	Hach	Hach A1063 06-22 800 NTU Comments
Lot #			A1062	A1042	A1032	
Expiration Date:			06-22	05-22	05-22	
Date	Time	Initials	15 NTU Value	100 NTU Value	1000 NTU Value	
1/12/22	0930	BRB	9.96	19.7	98.6	798
1/13/22	0900	BRB	9.63	21.1	101	805