# U.S. Department of the Interior
# NATIONAL PARK SERVICE
# Virgin Islands National Park

# Level II Environmental Site Assessment Report
# Caneel Bay Resort
# Saint John, U.S. Virgins Islands

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## EXECUTIVE SUMMARY

This document is the *Level II Environmental Site Assessment (ESA) Report for the Caneel Bay Resort (CBR) Property*. The CBR property is located on the west part of the island of St. John, U.S. Virgin Islands, in the Virgin Islands National Park (VIIS). The CBR property consists of a 150-acre vacation resort located approximately 1 mile northeast of the town of Cruz Bay.

This Level II ESA is the result of a Level I ESA that was completed for the property in September of 2012. The Level I ESA identified a number of recognizable environmental conditions (RECs) on the CBR property. The purpose of this current assessment was to conduct specific Level II activities at each of the REC site areas in order to determine if an actual release of hazardous substances or petroleum products has occurred.

The results of this assessment indicate that a release of hazardous substances or petroleum products has occurred at all seven sites investigated for this Level II ESA. Additional Level II assessment activities are recommended.

Specific recommendations for each site and other areas are provided in Section 4 of this report.

## 1.0 INTRODUCTION

This document is the *Level II Environmental Site Assessment (ESA) Report for the Caneel Bay Resort (CBR) Property*. The CBR property is located on the west part of the island of St. John, U.S. Virgin Islands, in the Virgin Islands National Park (VIIS). The entire CBR property consists of approximately 150 acres. The property is located approximately 1 mile northeast of the town of Cruz Bay. The property consists of a large vacation resort with approximately 100 buildings and structures used for lodging, food services, recreation, docks, marinas and maintenance services. The resort property is adjacent to the east side of Caneel Bay and also includes several beaches and large areas of undeveloped woods. The National Park Service (NPS) currently owns the land but proposes to acquire ownership of the buildings and structures.

This Level II ESA is the result of a Level I ESA that was completed for the property in September of 2012. The Level I ESA identified a number of recognizable environmental conditions (RECs) on the CBR property. The purpose of this current assessment was to conduct specific Level II activities at each of the REC site areas in order to determine if an actual release of hazardous substances or petroleum products has occurred. Additional site information concerning the RECs and sites is presented in the Level I ESA report.

## 2.0 METHODOLOGY

This Level II ESA was conducted in accordance with the *Workplan for Level II Environmental Site Assessment (ESA) of the Caneel Bay Resort (CBR) Property, July 1, 2013*, with the following exceptions:

- The proposed work at the existing marina and fuel facility, and at the former marina fuel tanks was deleted at the request of the NPS.
- Analysis for pesticides and herbicides was added to three of the sediment samples collected at the engineering and maintenance area based on observations made during the fieldwork for this Level II ESA.
- Two subsurface soil samples and analyses were deleted from the engineering area former underground storage tank (UST). This was due to the presence of abundant rocks in the subsurface which prevented the installation of two of the soil borings to the water table.

### 2.1 Fieldwork and Sampling

The fieldwork and sampling activities for this Level II ESA were conducted from January 11 to January 17, 2014 by John D. Barksdale and Rafe Boulon of Barksdale and Associates, Inc. (B & A). The fieldwork and sampling activities were conducted in general accordance with the Field Branches Quality System and Technical Procedures, U.S. Environmental Protection Agency (EPA), Region 4 (http://www.epa.gov/region4/sesd/fbqstp/#GuidanceDocuments).

Continuous soil cuttings were collected from the soil borings and soil sample locations. The lithologic and hydrogeologic properties of the soil were recorded. The soil cuttings were field-screened for the presence of volatile organic vapors (e.g., petroleum or solvents) using a calibrated photo-ionization detector (PID). In addition, the soil cuttings were observed for indications of potential contamination, including staining, sheen and odors. The results of the field screening were used to determine the locations and/or depth intervals of the samples, unless otherwise specified in this report. All samples were collected from locations and/or depth intervals most likely to exhibit contamination.

After collection, the samples were placed on ice in coolers and shipped via overnight delivery to Test America in Pensacola, Florida for laboratory analyisis.

### 2.2 Laboratory Data Interpretation

The soil, sediment and groundwater sample analytical results were compared with the site screening levels found in the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013 (http://www.epa.gov/region9/superfund/prg/). The RSLs are conservative risk-based human health site screening criteria developed by EPA. Four RSLs were selected as screening criteria for the site samples, as follows:

- Residential Soil RSLs – These screening criteria are used to evaluate direct human

exposure to soils in an outdoor residential setting.

- Industrial Soil RSLs - These screening criteria are used to evaluate direct human exposure to soils for workers in an outdoor industrial or commercial setting.
- SSL RSLs – These screening criteria are used to evaluate the potential of the target compound to leach from the soil and migrate to the groundwater at levels of concern. SSLs are back-calculated from acceptable ground water concentrations.
- Tapwater RSLs – These screening criteria were used for evaluating significance of target compounds in the groundwater.

The soil and sediment results were also compared with ecological screening values for sediment found in *Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment* (EPA 2001) (http://www.epa.gov/region4/superfund/programs/riskassess/ecolbul.html). These screening criteria assess the impact of the target compounds on non-human biological organisms.

The U.S. Virgin Islands Department of Planning and Natural Resources (DPNR) has soil cleanup standards for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). DPNR also uses the EPA RSLs as soil and groundwater screening criteria. The soil and groundwater results for this assessment were compared to the DPNR standards and screening criteria.

Metals concentrations in the soils were also compared to naturally occurring levels of metals known to present in shallow soils in the continental United States. Background levels of metal in soils are presented in the document: *Geochemical Landscape of the Conterminous United States – New Map Presentations for 22 Elements,* U.S. Geological Survey (USGS) Professional Paper 1648, November 2001. USGS-derived arithmetic mean (average) metals values were used to evaluate whether the metals concentrations detected in the site soils were representative of naturally occurring background conditions or were indicative of anthropogenic sources of contamination. The average background metals values used were as follows:

- Arsenic - 5.2 milligrams per kilogram (mg/kg)
- Barium - 440 mg/kg
- Chromium - 37 mg/kg
- Lead - 16 mg/kg
- Selenium - 0.26 mg/kg
- Mercury - 0.058 mg/kg

Metals concentrations detected on the sites that exceeded 1.5 times the USGS background values were considered to potentially be anthropogenic sources of contamination. USGS background values were not available for the metals silver and cadmium.

A soil sample was collected by B & A on Saint John in 2009 in a non-affected area. The sample was analyzed for arsenic and the result was 8 mg/kg. This concentration is similar to the above background concentration for arsenic reported by the USGS.

### 2.3 Laboratory Analytical Methods

The following are the laboratory analytical methods used for this assessment:

- Total petroleum hydrocarbons (TPH) diesel range organics (DRO), gasoline range organics (GRO) and oil range organics (ORO; EPA Method 8015C).
- Semi-volatile organic compounds (SVOCs; EPA Method 8270D).
- Benzene, toluene, ethylbenzene and total xylenes (BTEX; EPA Method 8260B).
- Polychlorinated biphenyls (PCBs; EPA Method 8082A).
- Organochlorine pesticides (EPA Method 8081B).
- Organophosphorous pesticides (EPA Method 8141A).
- Herbicides (EPA Method 8151A).
- Nitrogen nitrate-nitrite (Method 9056).
- Nitrogen nitrite (Method 9056).
- Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) (EPA Methods 6010C and 7471B).

### 2.4 Field Quality Assurance/Quality Control (QA/QC) Samples

Limited numbers of field QA/QC samples were collected. These consisted of two field duplicate samples, an equipment rinsate sample and one trip blank sample. The duplicate samples consisted of splits of soil samples collected from the engineering area underground storage tank site and the debris landfill site. The equipment rinsate sample consisted of laboratory-grade analyte-free water poured over decontaminated soil sampling equipment and analyzed for TPH DRO and GRO; BTEX; SVOCs; PCBs; and RCRA metals. The trip blank was analyte-free water shipped with samples being analyzed for BTEX; the trip blank was analyzed for BTEX only.

### 2.5 Subsurface Utilities

Where soil borings were conducted below 1 foot, the locations of existing subsurface utilities were determined prior to conducting these activities. Soil borings deeper than 1 foot were conducted only at the engineering area former UST site. CBR staff indicated that there were no subsurface utilities near the proposed soil boring locations at the former UST site.

### 2.6 List of Sites Investigated and Samples Collected

The following is a list of the sites investigated and the samples and analytical parameters for each site.

**Table 1: List of Sites & Samples Collected**

| Site Number & Name | Number of Samples | | | Analytical Parameters |
|---|---|---|---|---|
| | Soil | Sediment | Groundwater | |
| 01 - Engineering & Maintenance | 6 | 1 | | TPH DRO, GRO & ORO; SVOCs; PCBs; RCRA metals |
| 01 - Engineering & Maintenance | | 3 | | TPH DRO, GRO & ORO; SVOCs; PCBs; RCRA metals; Organochlorine pesticides; Organophosphorous pesticides; Herbicides |
| 02 - Engineering - Former UST | 2 | | 1 | BTEX; SVOCs; lead |
| 03 - Grounds & Landscaping – Chemical Storage Sheds | 6 | | | Organochlorine pesticides; Organophosphorous pesticides; Herbicides; Nitrogen nitrate-nitrite; Nitrogen nitrite; RCRA metals |
| 04 - Grounds & Landscaping – Equipment Maintenance Building | 2 | | | TPH GRO and ORO; SVOCs; RCRA metals |
| 05 - Emergency Generator Building | 4 | | | TPH DRO and ORO; SVOCs; RCRA metals |
| 06 - Wastewater Treatment Plant | 3 | | | TPH ORO; SVOCs; PCBs; RCRA metals |
| 07 - Debris Landfill Near Honeymoon Beach | 4 | | | SVOCs; PCBs; Organochlorine pesticides; Organophosphorous pesticides; Herbicides; RCRA metals |

(See also Table 2 in Appendix C)

## 2.7 Soil Sample Collection

The soil samples were collected manually using decontaminated steel post-hole diggers and/or a stainless steel trowel. A decontaminated stainless steel hand auger was also used to collect the subsurface soil samples. The sediment samples were collected using only the decontaminated stainless steel trowel.

# 3.0 RESULTS

This section discusses the results of the fieldwork and sampling activities for each site. Maps showing each site and the sample locations are provided in Appendix A (Figures 1 to 9). Photographs taken during the assessment fieldwork are provided in Appendix B. Appendix C contains results summary tables. Table 2 in Appendix C presents a list of all the soil and water samples, sample numbers and sample depths; Table 2 also lists the rationale for the location of each sample and the indications of potential contamination observed for the samples. Tables 3 through 10 in Appendix C provide a summary of the laboratory analytical results for each sample; the tables also provide the screening criteria discussed above in Section 2.2 and indicate whether the sample results exceeded the screening criteria. The laboratory analytical reports for the samples are contained in Appendix D.

Figure 1 in Appendix A shows the general location of each of the sites on the CBR facility.

A discussion of the assessment results for each site is provided below in Sections 3.1 to 3.7.

## 3.1 Site 1 – Engineering and Maintenance Area

Figures 2 and 3 show the locations of the six surface soil and four sediment samples collected for the site. Nearly all the engineering and maintenance area is paved with concrete. The surface soil samples were collected at the edges of the pavement where runoff discharges to bare soil. The sediment samples were collected from deposits of sediment in the concrete paved drainage ditch down slope from the site.

As shown in Table 2, none of the Site 1 surface soils or sediment exhibited indications of potential contamination in the field.

As shown in Table 3, three of the surface soil samples exceeded RSL or DPNR screening criteria for SVOCs and/or TPH DRO. Three samples exceeded screening criteria and 1.5 times background for arsenic. One sample exceeded screening criteria and 1.5 times background for mercury. The majority of the screening criteria exceedances were located in the area north of the engineering and maintenance area where stormwater surface runoff flows from the concrete paved areas to bare soil.

As shown in Table 4, three sediment samples exceeded RSL screening criteria for SVOCs and/or organochlorine pesticides. Two samples exceeded ecological screening values for organochlorine pesticides. One sample exceeded RSL screening criteria and 1.5 times background for mercury. There were no exceedances in sediment sample 01-SD-04, which was collected where the drainage ditch discharges to the beach on the west shore of Caneel Bay.

## 3.2 Site 2 – Engineering Area Former UST

Figure 4 shows the locations of the soil borings, monitoring well, and soil and groundwater samples collected on the site.

The former UST had been previously reported by CBR management staff to have been removed in the mid-1990s. During the current site investigation fieldwork, a CBR employee (Lynne Norman), who was present when the tank was removed, confirmed that the UST was removed and verified that the former tank was located just south of a warehouse building in the engineering area (see Figure 4). The location of the former UST was evident by a patched area in the concrete pavement measuring approximately 9 feet wide and 38 feet long.

A monitoring well was observed to be located near the southwest corner of the former UST location. The monitoring well was accessed through a flush-mounted steel manhole with a bolt-down lid. The well was measured to be 7.5 feet deep and is constructed of four-inch-diameter continuous polyvinyl chloride (PVC) screen. The static water level in the well was approximately 5.3 feet below the ground surface (BGS). One well volume of groundwater was calculated to be approximately 1.5 gallons. On the day prior to sampling, the well was purged of approximately 9.5 gallons of water (approximately 6 well volumes). The groundwater rapidly flowed back into the well and was clear and virtually sediment-free. No sediment was observed to remain in the bottom of the well. Based on these results, the well was determined to be suitable for collecting a representative groundwater sample. On the day of sampling (1/12/14), the well was purged of 5 gallons of water just prior to sampling. The groundwater sample was collected using a disposable, two-inch diameter Teflon bailer. During purging and sampling, care was taken to minimize agitation of the groundwater in the well.

Based on the topography at the site and surrounding area, the direction of shallow groundwater flow near the UST is estimated to be to the west. Therefore the monitoring well at the site appears to be downgradient of the former UST location.

Attempts were made at seven locations to install soil borings at the former UST site. Due to the presence of numerous rocks in the subsurface soil, only two boreholes were able to be advanced to the depth of the water table (see Figure 4). The depths of the unsuccessful boreholes ranged from approximately 1 to 3 feet BGS. The two successful boreholes were installed to approximately 7.5 feet BGS; the water table in the boreholes appeared to be at approximately 5 to 6 feet BGS. Both successful boreholes were believed to have been installed in the former UST excavation, based on the observed presence of suspected fill material. The soil near the water table in the two boreholes had a slight petroleum odor. No other indication of potential petroleum contamination was observed in the soil. Based on the field observations and locations of the two successful boreholes, it is believed that these two boreholes adequately represent the subsurface conditions at the former UST location. The concrete surface at all seven borehole locations was patched with concrete following the borehole installations or attempts.

As discussed above and shown in Table 2, the subsurface soil samples had a slight petroleum odor. However, the groundwater sample had a strong petroleum odor. The groundwater was screened with a photoionization detector (PID) using a one-gallon plastic bottle half-filled with groundwater. The PID reading of the air (headspace) in the bottle was 3.3 parts per million (ppm), which indicates the presence of volatile organic compounds (VOCs) in the groundwater. As a control, the same test was performed using tapwater and the resulting PID reading was 0.1 ppm.

As shown on Table 5, none of the subsurface soil samples exceeded screening criteria. As shown on Table 6, the groundwater sample exceeded screening criteria for benzene, ethylbenzene, naphthalene, and 1- and 2-methylnaphhalene.

### 3.3 Site 3 – Grounds and Landscaping Chemical Storage Sheds

Figure 5 shows the locations of the surface soil samples collected on the site.

As shown in Table 2, none of the Site 3 surface soils exhibited indications of potential contamination in the field.

As shown in Table 7, all but one of the surface soil samples exceeded screening criteria for organophosphorous or organochlorine pesticides. Five of the samples exceeded screening criteria and 1.5 times background for the metals arsenic or selenium; silver exceeded screening criteria in two samples.

### 3.4 Site 4 - Grounds and Landscaping Equipment Maintenance Building

Figure 6 shows the locations of the surface soil samples collected on the site.

As shown in Table 2, only one of the Site 4 surface soils exhibited indications of potential contamination in the field; this was a gray staining, oil and metallic odor and PID reading up to 2 ppm.

As shown in Table 8, one surface soil sample exceeded RSL screening criteria for benzo(b)fluoranthene. One sample exceeded screening criteria and 1.5 times background for selenium.

### 3.5 Site 5 – Emergency Generator Building

Figure 7 shows the locations of the surface soil samples collected on the site.

As shown in Table 2, none of the Site 5 surface soils exhibited indications of potential contamination in the field.

As shown in Table 9, three of the four surface soil samples exceeded the DPNR screening criteria for DRO. All four samples greatly exceeded the screening criteria and 1.5 times background for arsenic; one sample exceeded screening criteria and 1.5 times background for selenium, and one sample exceeded screening criteria and 1.5 times background for mercury.

### 3.6 Site 6 – Wastewater Treatment Plant

Figure 8 shows the locations of the surface soil samples collected on the site.

As shown in Table 2, one of the Site 6 surface soil samples exhibited indications of potential contamination in the field; this was a strong oil odor.

As shown in Table 10, two of the three surface soil samples exceeded RSL screening criteria for SVOCs. Two samples exceeded screening criteria and 1.5 times background for selenium, and one sample exceeded screening criteria and 1.5 times background for mercury.

## 3.7 Site 7 – Debris Landfill

During site assessment fieldwork, CBR staff reported that the landfill has been used for over 50 years to dispose of all types of wastes from CBR operations. In addition, CBR staff reported that the deposited material is up to 15 feet thick in places, especially in the southwest part of the landfill.

Figure 9 shows the locations of the surface soil samples collected on the site.

The surface soil samples at Site 7 were collected from specific locations as opposed to the gridded locations proposed in the workplan. This was due to the results of a closer inspection of the landfill area. One sample was collected at the base of the fill material at the downslope (southwest) end of the landfill area. The other three were collected in four- to six-foot-deep depressions in the surface of the landfill where garbage and debris were exposed. All four samples were collected from two composites at each sample location.

As shown in Table 2, three of the four Site 7 surface soils exhibited indications of potential contamination in the field; this was plastic and metal debris in the soil.

As shown in Table 11, three of the four surface soil samples exceeded screening criteria for the pesticide dieldrin and for SVOCs and PCBs. Three of the samples exceeded screening criteria and 1.5 times background for the metal selenium.

## 3.8 Laboratory Analytical Results Discussion

Some of the sample analytical results were labelled with an “I” qualifier, which indicates that the detected concentration was low and was above the laboratory method detection limit but was below the practical quantitation limit.

Some of the sample analytical results were labelled with a “V” qualifier, which indicates that the detected analyte was also present in the associated laboratory method blank; and the concentration detected in the method blank was equal to or more than 10% of the concentration reported for the sample. This is not believed to have affected the analytical results for the samples.

A complete discussion of the laboratory quality control results is provided in the case narrative of each Test America report (Appendix D).

## 3.9 Field Quality Control Sample Results

Duplicate Samples

The duplicate samples consisted of splits of two soil samples collected from: 1) the engineering area underground storage tank site (sample 02-SU-03, see Table 5); and 2) the debris landfill

site (sample 07-SS-05, see Table 11). The results of both duplicate samples were in close agreement with the original samples from which the duplicates were split.

Rinsate Sample

The equipment rinsate sample consisted of laboratory-grade analyte-free water poured over decontaminated soil sampling equipment (see Table 6). Very low concentrations of DRO and mercury were detected in the rinsate blank. No other analytes (BTEX, SVOCs, GRO or lead) were detected. Given the very low concentrations of only two analytes detected, the results of the rinsate sample are considered to be acceptable and indicate that the soil sampling equipment was effectively decontaminated.

Trip Blank

The trip blank was analyte-free water shipped with samples being analyzed for BTEX; the trip blank was analyzed for BTEX only (see Table 6). No BTEX compounds were detected in the trip blank.

## 3.10 Asbestos Pipes

A CBR employee reported that subsurface asbestos pipes are present in several areas on the property. The pipes were reported to be part of old pipes used to supply the resort with drinking water. Asbestos pipes were reported to be present near Honeymoon Beach and the Debris Landfill (Site 7). A suspected asbestos pipe (six-inch-diameter) was observed in the subsurface near the Grounds and Landscaping Equipment Maintenance Building. Two samples of this pipe were collected to determine if the pipe material contained asbestos. The samples were analyzed for asbestos by EMSL Analytical, Inc. using Polarized Light Microscopy by EPA Method 600/R-93/116. The laboratory analytical report is contained in Appendix D. The results indicate that both samples of the pipe contained approximately 30 percent asbestos.

# 4.0 DISCUSSION, CONCLUSIONS & RECOMMENDATIONS

The following sections contain a discussion of the results, and conclusions and recommendations for each site. It should be noted that the groundwater beneath the CBR facility is not potable and is not used for any purpose. Some compounds were detected in the soil at levels of concern for leachability to the ground water; however, the groundwater would require sampling to determine if those compounds are actually present in the groundwater at levels of concern. Because the groundwater is unused on the property, it is unlikely that it poses a threat to human health.

## 4.1 Site 1 – Engineering and Maintenance Area

Soil

The screening criteria exceedances in the surface soil at this site indicate that there is a concern for direct human contact with SVOC compounds and arsenic. In addition, there are concerns for leachability of SVOCs, arsenic and mercury to groundwater. The primary area of concern on the site is the area north of the east part of the site where stormwater runoff from the maintenance areas to the soil occurs. One exceedance of the DPNR screening criteria for TPH DRO occurred in the area west and downslope from the site where stormwater runoff to bare soil occurs in that area.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. Synthetic Precipitation Leaching Procedure (SPLP) testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

Sediment

The screening criteria exceedances in the sediment at this site indicate that there is a concern for direct human contact with SVOC compounds. In addition, there are concerns for leachability of 4,4-DDD, benzo(a)pyrene, benzo(b)fluoranthene and mercury to the groundwater and surface water. There is also a concern for adverse ecological impact by organochlorine pesticides. Elevated levels of these constituents were not present in the sediment sample collected on the beach where the drainage ditch discharges into Caneel Bay.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the sediment at the site that exceeded screening criteria. SPLP testing of the sediment should be conducted to better determine the potential for leaching of the detected constituents to the groundwater and surface water; or groundwater and surface water samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.2 Site 2 – Engineering Area Former UST

Subsurface Soil

Low concentrations of BTEX and SVOC compounds were detected; however, there were no screening criteria exceedances in the subsurface soil at the location of the former UST.

Groundwater

The groundwater sample exceeded the tapwater screening criteria for benzene, ethylbenzene, naphthalene, 1-methylnaphthalene and 2- methylnaphthalene, all of which are all petroleum-related compounds. These compounds are likely due to the presence of low level petroleum constituents in the soils near the former UST. However, as stated above, the groundwater is not used at the CBR facility. The concentrations of these compounds will probably decline over time due to bio-degradation and natural attenuation. Periodic re-sampling of the groundwater in the monitoring well is recommended. The manhole lid and locking cap on the well should be repaired or replaced to provide better security for the well.

## 4.3 Site 3 – Grounds and Landscaping Chemical Storage Sheds

The screening criteria exceedances in the surface soil at this site indicate that there are concerns for leachability of malathion, numerous organochlorine pesticides, arsenic and selenium to groundwater.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. SPLP testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.4 Site 4 - Grounds and Landscaping Equipment Maintenance Building

The screening criteria exceedances in the surface soil at this site indicate that there are concerns for leachability of benzo(b)fluoranthene and selenium to groundwater.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. SPLP testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.5 Site 5 – Emergency Generator Building

The screening criteria exceedances in the surface soil at this site indicate that there is a concern for direct human contact with arsenic. In addition, there are concerns for leachability of selenium and mercury to groundwater. Three of the four surface soil samples exceeded the DPNR screening criterion for DRO.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. SPLP testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.6 Site 6 – Wastewater Treatment Plant

The screening criteria exceedances in the surface soil at this site indicate that there is a concern for direct human contact with several SVOCs. In addition, there are concerns for leachability of SVOCs, selenium and mercury to groundwater. One sample (06-SS-01) had high levels of ORO; however, there is no screening criterion for this constituent.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. SPLP testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.7 Site 7 – Debris Landfill

The screening criteria exceedances in the surface soil at this site indicate that there is a concern for direct human contact with several SVOCs. In addition, there are concerns for leachability of alpha chlordane, dieldrin, several SVOCs, PCBs and selenium to groundwater.

Further assessment is recommended to determine the horizontal and vertical extents of the constituents in the soil at the site that exceeded screening criteria. SPLP testing of the soil should be conducted to better determine the potential for leaching of the detected constituents to the groundwater; or groundwater samples should be collected. An attempt should be made to collect soil samples from deeper within the deposited waste. A groundwater or leachate sample should be collected from just beyond the southwest part of the filled area. A risk assessment may be required to better evaluate the potential risk to human health and the environment.

## 4.8 Asbestos Pipes

Asbestos water pipes have been reported to be present in the ground in several areas on the CBR facility. One six-inch-diameter pipe was observed at the Grounds and Landscaping site and was tested to confirm that it contained asbestos. The observed pipe was broken and in poor condition. Asbestos is a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). An additional investigation should be conducted to identify the locations of the asbestos water pipes on the property. Where feasible, the asbestos pipes should be removed and properly disposed of to prevent human exposure to asbestos fibers. In the meantime, care should be taken not to disturb the existing pipes.

## 4.9 Cottage 7

A CBR employee reported that a pre-World War II bomb shelter was formerly present beneath Cottage 7, which is a guest house in the northwest part of the resort. The CBR employee believed that an underground storage tank (UST) had been associated with an emergency generator for the bomb shelter. The Cottage 7 exterior and grounds near the cottage were inspected during the fieldwork for this Level II ESA; however, no evidence of the former bomb shelter or UST was observed. More research concerning the former bomb shelter and UST should be conducted to determine if a potential release of fuel from the UST has occurred at this location.

## 4.10 Resort Management Practices

Many of the sites discussed in this report still have areas where hazardous substances and petroleum products are being used and are exposed to rainfall, have been spilled on surfaces, or are being discharged to the soil and water on and near the sites. CBR should clean up these areas and provide containment for the hazardous substances and petroleum products so that contaminants are no longer able to migrate to the soil or water.

# Appendix A

# Site & Sample Location Maps

**Figure 1 - Site Locations**
**Caneel Bay Resort**

**Figure 2 - Surface Soil Sample Locations**
**Site 1 - Engineering & Maintenance Area**

**Figure 3 - Sediment Sample Locations**
**Site 1 - Engineering & Maintenance Area**

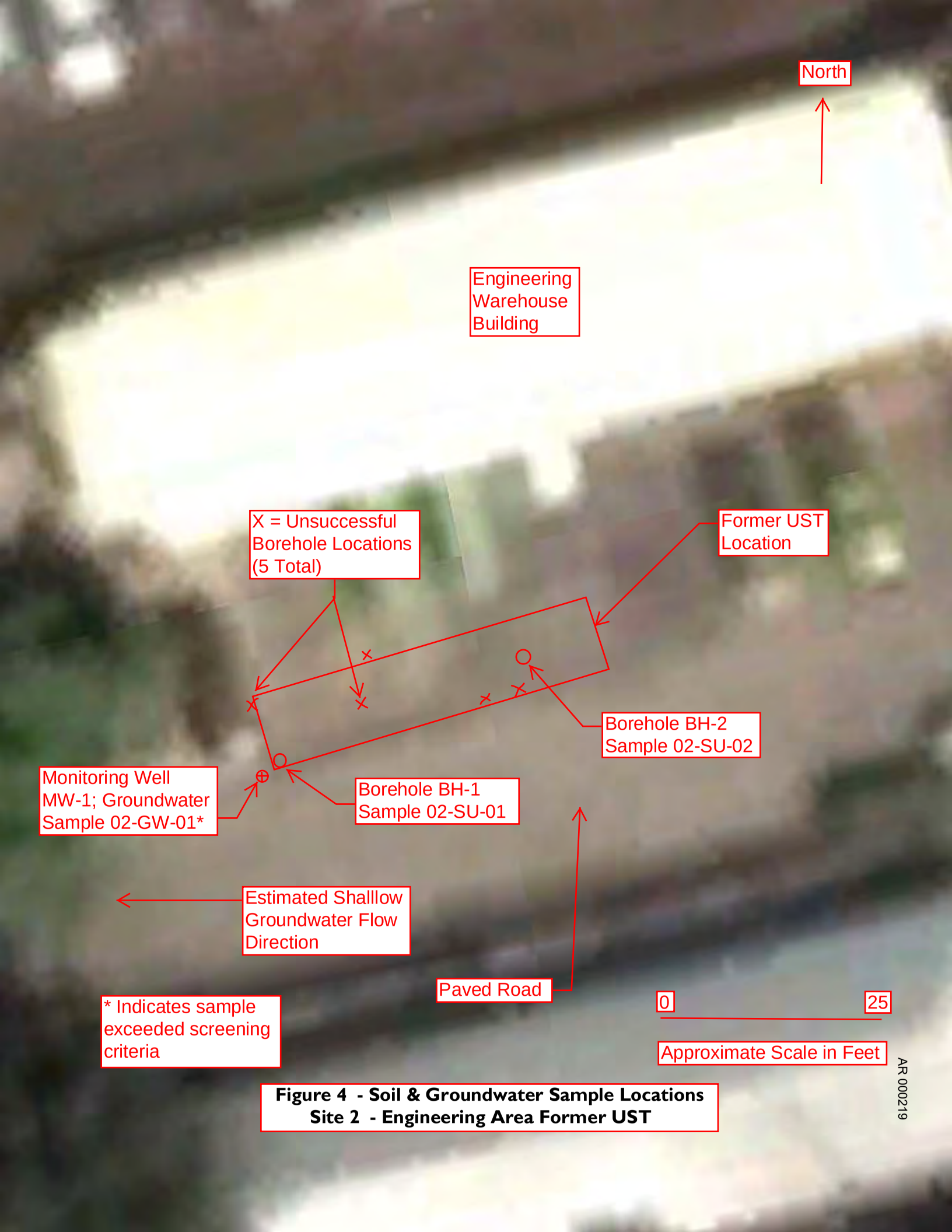



**Figure 4 - Soil & Groundwater Sample Locations**
**Site 2 - Engineering Area Former UST**

**Figure 5 - Surface Soil Sample Locations**
**Site 3 - Grounds & Landscaping Chemical Storage Sheds**

**Figure 6 - Surface Soil Sample Locations**
**Site 4 - Grounds & Landscaping Equipment Maintenance Building**

**Figure 7 - Surface Soil Sample Locations**
**Site 5 - Emergency Generator Building**

**Figure 8 - Surface Soil Sample Locations**
**Site 6 - Wastewater Treatment Plant**

**Figure 9 - Surface Soil Sample Locations**
**Site 7 - Debris Landfill**

# Appendix B

# Site Photographs

**Unpaved Area West (Downslope) of the Engineering Area – Two Surface Soils Samples Collected in this Area**

**Unpaved Area North of the Engineering Area – Four Surface Soils Samples Collected in this Area**

**Paved Ditch North of Engineering Area – Sediment Sample Collected at this Location**

**Paved Ditch Northwest of Engineering Area – Sediment Samples Collected in this Area**

**Former UST Location in Engineering Area**

**Concrete Pavement Patch at Former UST Location**

**Former UST Location - Cutting Pavement for Borehole BH2**

**Former UST Location - Installing Borehole BH2**

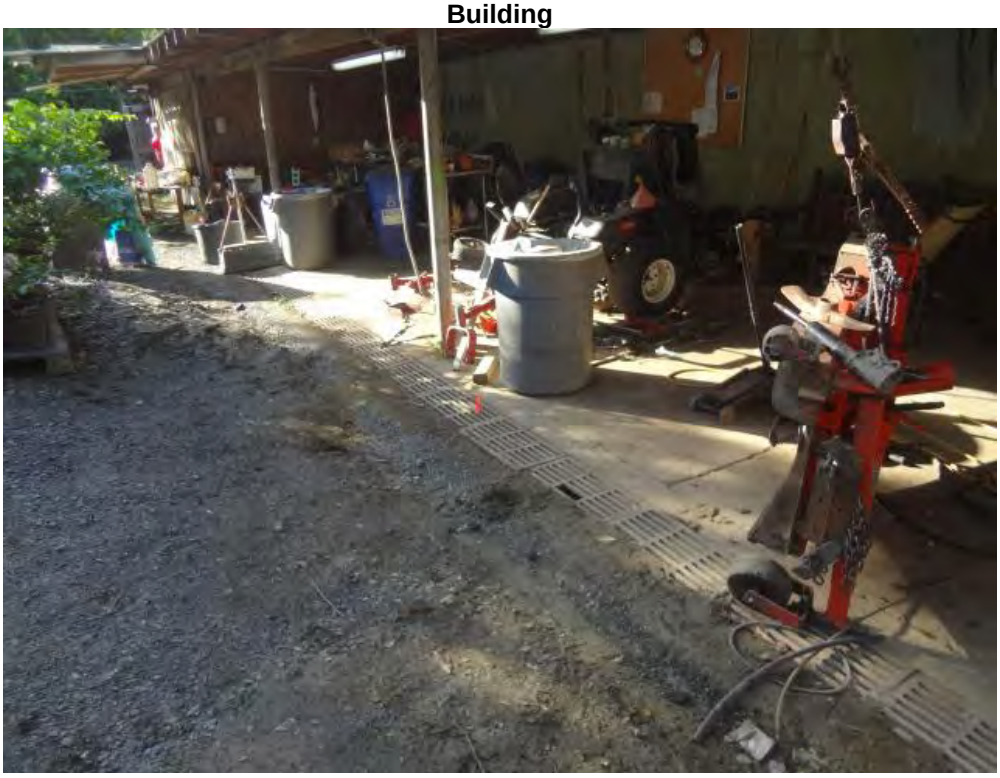
**Monitoring Well Near Southwest Corner of Former UST Location**

**Boreholes Installed Through Pavement at Former UST Location – Borehole BH1 in Foreground**

**Grounds & Landscaping Chemical Storage Shed – Two Surface Soil Samples Collected at this Location**

**Grounds & Landscaping Greenhouse –Surface Soil Sample Collected at this Location**

**Grounds & Landscaping – Exposed Asbestos Pipe in Ground Near Equipment Maintenance Building**



**Grounds & Landscaping Equipment Maintenance Building – Surface Soil Samples Collected Here**

**Northwest Side of Emergency Generator Building - Surface Soil Sample Locations**

**Wastewater Treatment Plant Pump Building – Soil Sample Location Near Pallet of Batteries on Ground**

**Wastewater Treatment Plant Pump Building – Soil Sample Location Near Northwest Corner of Building**

**Debris Landfill at Base of Berm Near Southwest Edge of Fill – Surface Soil Sample 07-SS-01 Location**

**Debris Landfill – Depression in Fill Material – Composite Surface Soil Sample Location**

**Debris Landfill – Depression in Fill Material – Composite Surface Soil Sample Location**

# Appendix C

# Results Summary Tables

**Table 2 - Sample Location Rationale and Potential Contamination Indications**
**Caneel Bay Resort**

| Site Number & Name | Sample No. | Sample Type | Sample Depth (feet BGS) | Sample Location Rationale | Indications of Potential Contamination Observed in the Field |
|---|---|---|---|---|---|
| Site 1 - Engineering & Maintenance | 01-SS-01 | Surface soil | 0 - 0.5 | In stormwater runoff area downslope from south part of concrete-paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SS-02 | Surface soil | 0 - 0.5 | In stormwater runoff area downslope from south part of concrete-paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SS-03 | Surface soil | 0 - 0.5 | In stormwater runoff areas adjacent to north part of concrete paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SS-04 | Surface soil | 0 - 0.5 | In stormwater runoff areas adjacent to north part of concrete paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SS-05 | Surface soil | 0 - 0.5 | In stormwater runoff areas adjacent to north part of concrete paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SS-06 | Surface soil | 0 - 0.5 | In stormwater runoff areas adjacent to north part of concrete paved Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SD-01 | Sediment | 0 - 0.5 | In concrete-paved drainage ditch downslope & downstream from Site 1 | None |
| Site 1 - Engineering & Maintenance | 01-SD-02 | Sediment | 0 - 0.5 | In concrete-paved drainage ditch downslope & downstream from Sites 1 & 3 | None |
| Site 1 - Engineering & Maintenance | 01-SD-03 | Sediment | 0 - 0.5 | In concrete-paved drainage ditch downslope & downstream from Sites 1 & 3 | None |
| Site 1 - Engineering & Maintenance | 01-SD-04 | Sediment | 0 - 0.5 | In concrete-paved drainage ditch downslope & downstream from Sites 1 & 3 | None |
| Site 2 - Engineering Area Former UST | 02-SU-01 | Subsurface Soil | 5.5 - 6.5 | In former UST excavation; collected from near the water table | Slight petroleum odor |
| Site 2 - Engineering Area Former UST | 02-SU-02 | Subsurface Soil | 5 - 7 | In former UST excavation; collected from near the water table | Slight petroleum odor |
| Site 2 - Engineering Area Former UST | 02-SU-03 | Subsurface Soil | 5 - 7 | Duplicate of 02-SU-02 | Slight petroleum odor |
| Site 2 - Engineering Area Former UST | 02-GW-01 | Groundwater | 5 - 7.5 | Monitoring well adjacent to and downgradient from former UST area | Strong petroleum odor; 3.3 ppm headspace PID reading |
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-01 | Surface Soil | 0 - 0.5 | In compost & debris area | None |
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-02 | Surface Soil | 0 - 0.5 | In greenhouse near irrigation sprinkler | None |

**Table 2 - Sample Location Rationale and Potential Contamination Indications**
**Caneel Bay Resort**

| Site Number & Name | Sample No. | Sample Type | Sample Depth (feet BGS) | Sample Location Rationale | Indications of Potential Contamination Observed in the Field |
|---|---|---|---|---|---|
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-03 | Surface Soil | 0 - 0.5 | In reported former chemical storage area; 3 composited locations | None |
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-04 | Surface Soil | 0 - 0.5 | In potted plant storage area near irrigation sprinkler | None |
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-05 | Surface Soil | 0 - 0.5 | Adjacent to entrance to chemical storage shed | None |
| Site 3 - Grounds & Landscaping Chemical Storage Sheds | 03-SS-06 | Surface Soil | 0 - 0.5 | Adjacent to entrance to chemical storage shed | None |
| Site 4 - Grounds & Landscaping Equipment Maintenance Building | 04-SS-01 | Surface Soil | 0 - 0.5 | Adjacent to open-sided maintenance building with oily equipment; 2 composited locations | Gray stain; oil & metallic odor; PID up to 2 ppm |
| Site 4 - Grounds & Landscaping Equipment Maintenance Building | 04-SS-02 | Surface Soil | 0 - 0.5 | Adjacent to open-sided maintenance building with oily equipment; 3 composited locations | None |
| Site 5 - Emergency Generator Building | 05-SS-01 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for surface runoff from outside building | None |
| Site 5 - Emergency Generator Building | 05-SS-02 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for liquid runoff from inside building | None |
| Site 5 - Emergency Generator Building | 05-SS-03 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for liquid runoff from inside building | None |
| Site 5 - Emergency Generator Building | 05-SS-04 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for liquid runoff from inside building | None |
| Site 6 - Wastewater Treatment Plant | 06-SS-01 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for oily surface runoff from inside pump building | Strong oil odor |
| Site 6 - Wastewater Treatment Plant | 06-SS-02 | Surface Soil | 0 - 0.5 | Adjacent to discharge point for oily surface runoff from inside pump building | None |
| Site 6 - Wastewater Treatment Plant | 06-SS-03 | Surface Soil | 0 - 0.5 | Adjacent to pump building & pallet of lead-acid batteries on ground | None |
| Site 7 - Debris Landfill | 07-SS-01 | Surface Soil | 0 - 1 | Adjacent to 15' high fill berm on southwest (downslope) edge of landfill; 2 composited locations | None |
| Site 7 - Debris Landfill | 07-SS-02 | Surface Soil | 0 - 1 | Inside 6' deep depression with exposed debris & garbage; 2 composited locations | Plastic & metal debris in soil |
| Site 7 - Debris Landfill | 07-SS-03 | Surface Soil | 0 - 1 | Inside 4' deep depression with exposed debris & garbage; 2 composited locations | None |
| Site 7 - Debris Landfill | 07-SS-04 | Surface Soil | 0 - 1 | Inside ' deep depression with exposed debris & garbage; 2 composited locations | Plastic, glass & metal debris in soil |
| Site 7 - Debris Landfill | 07-SS-05 | Surface Soil | 0 - 1 | Duplicate of 07-SS-01 | Plastic & metal debris in soil |

**Table 3 - Soil Sample Laboratory Analytical Results Summary**
**Site 1 - Engineering Maintenance Area**

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 01-SS-01 | 01-SS-02 | 01-SS-03 | 01-SS-04 | 01-SS-05 | 01-SS-06 |
| **SVOCs (mg/kg)** | | | | | | | | | | |
| Benzo[a]anthracene | 0.15 | 2.1 | **0.01** | NE | ND | ND | ND | **0.081 I** | ND | **0.027 I** |
| Benzo[a]pyrene | **0.015** | 0.21 | **0.0035** | **0.1** | ND | ND | ND | **0.11 I** | ND | **0.046 I** |
| Benzo[b]fluoranthene | **0.15** | 2.1 | **0.035** | NE | ND | ND | ND | **0.16 I** | ND | **0.072 I** |
| Benzo[g,h,i]perylene | NE | NE | NE | 2,500 | ND | ND | ND | 0.11 I | ND | 0.036 I |
| Benzo[k]fluoranthene | 1.5 | 21 | 0.35 | NE | ND | ND | ND | ND | ND | 0.027 I |
| Chrysene | 15 | 210 | 1.1 | NE | ND | ND | ND | ND | ND | 0.033 I |
| Fluoranthene | 230 | 2,200 | 7 | 3,200 | ND | ND | ND | 0.28 I | ND | 0.11 I |
| Indeno[1,2,3-cd]pyrene | 0.15 | 2.1 | 0.2 | NE | ND | ND | ND | 0.089 I | ND | 0.031 I |
| Phenanthrene | NE | NE | NE | 2,200 | ND | ND | ND | 0.17 I | ND | 0.018 I |
| Pyrene | 170 | 1,700 | 0.95 | 2,400 | 0.094 I | ND | ND | 0.30 I | ND | 0.11 I |
| **DRO (mg/kg)** | NE | NE | NE | **100** | **370** | 27 | 4.1 I V | **300** | 10 V | 19 V |
| **GRO (mg/kg)** | NE | NE | NE | 100 | ND | ND | ND | ND | ND | ND |
| **ORO (mg/kg)** | NE | NE | NE | NE | 350 | 33 | 3.6 I V | 230 | 12 V | 16 V |
| **PCBs** | NAP | NAP | NAP | NAP | ND | ND | ND | ND | ND | ND |
| **Metals (mg/kg)*** | | | | | | | | | | |
| Silver - {NE}* | 39 | 510 | 0.06 | NE | ND | ND | ND | ND | ND | ND |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | **7.8** | **2.6** | **5.7** | **19** | **15** | **42** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | **53** | **57** | **95** | **120** | **110** | **79** |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | NE | 0.46 I | 0.26 I | 0.26 I | 2.1 | 0.48 I | 1.1 |
| Chromium - {37}* | NE | NE | NE | NE | 32 | 33 | 39 | 76 | 52 | 74 |
| Lead - {16}* | 400 | 800 | NE | NE | 19 | 26 | 8 | 130 | 37 | 18 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | ND | **0.74 I** | ND | ND | **0.62 I** | **0.63 I** |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | **0.028 V** | **0.051 V** | **0.036 V** | **0.11 V** | **0.064 V** | **0.057 V** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
PCBs = Polychlorinated biphenyls. NAP = Not applicable, parameter group not detected.
SVOCs = Semi Volatile Organic Compounds. DRO = Diesel Range Organics. GRO = Gasoline Range Organics. ORO = Oil Range Organics.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

**Table 4 - Sediment Sample Laboratory Analytical Results Summary**
**Site 1 - Engineering and Maintenance Area**

| Sediment Sample Analytical Parameters (Units) | Screening Criteria | | | | | Sample Number & Results | | | |
|---|---|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | ESV Sediment (mg/kg) | 01-SD-01 | 01-SD-02 | 01-SD-03 | 01-SD-04 |
| **Organophosphorous Pesticides** | NAP | NAP | NAP | NAP | NAP | NA | ND | ND | ND |
| **Organochlorine Pesticides (mg/kg)** | | | | | | | | | |
| 4,4'-DDD | 2 | 7.2 | **0.0064** | NE | **0.0033** | NA | **0.02** | ND | ND |
| 4,4'-DDE | 1.4 | 5.1 | 0.046 | NE | **0.0033** | NA | **0.016** | **0.0059 I** | ND |
| 4,4'-DDT | 1.7 | 7 | 0.067 | NE | **0.0033** | NA | **0.0074 I** | 0.0027 I | ND |
| Dieldrin | 0.03 | 0.11 | 0.000061 | NE | **0.0033** | NA | **0.0082 I** | ND | ND |
| **Herbicides** | | | | | | NA | ND | ND | ND |
| **SVOCs (mg/kg)** | | | | | | | | | |
| Benzo[a]pyrene | **0.02** | **0.2** | **0.0035** | **0.1** | 0.33 | **0.12 I** | ND | ND | ND |
| Benzo[b]fluoranthene | 0.15 | 2.1 | **0.035** | NE | NE | **0.16 I** | ND | **0.081 I** | ND |
| Benzo[g,h,i]perylene | NE | NE | NE | 2,500 | NE | 0.11 I | ND | ND | ND |
| **DRO (mg/kg)** | NE | NE | NE | 100 | NE | 24 V | 37 | 17 V | 3.7 IV |
| **GRO (mg/kg)** | NE | NE | NE | 100 | NE | ND | ND | ND | ND |
| **ORO (mg/kg)** | NE | NE | NE | NE | NE | 30 | 65 | 36 | 2.6 IV |
| **PCBs** | NAP | NAP | NAP | NAP | NAP | ND | ND | ND | ND |
| **Metals (mg/kg)** | | | | | | | | | |
| Silver - {NE}* | 39 | 510 | 0.06 | NE | 2 | ND | ND | ND | ND |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | 7.24 | **2.6** | **1.4** | **0.99** | **0.98** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | NE | **71** | **31** | **18** | 8.9 |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | NE | 1 | 0.31 I | ND | 0.13 I | ND |
| Chromium - {37}* | NE | NE | NE | NE | 52.3 | 40 | 25 | 16 | 4.2 |
| Lead - {16}* | 400 | 800 | NE | NE | 30.2 | 17 | 3.2 | 6.7 | 1.5 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | NE | ND | ND | ND | **1.7** |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | 0.13 | **0.071 V** | **0.10 V** | **0.017 IV** | **0.016 IV** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
ESV = Ecological screening values for sediment in Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment (EPA 2001)
PCBs = Polychlorinated biphenyls. NAP = Not applicable, parameter group not detected.
SVOCs = Semi Volatile Organic Compounds. DRO = Diesel Range Organics. GRO = Gasoline Range Organics. ORO = Oil Range Organics.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected. NA = Sample not analyzed for this parameter.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

## Table 5 - Subsurface Soil Sample Laboratory Analytical Results Summary
## Site 2 - Engineering Area Former UST

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | | |
|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 02-SU-01 | 02-SU-02 | 02-SU-03 (Duplicate of 02-SU-02) |
| **BTEX (mg/kg)** | | | | | ND | ND | ND |
| Ethylbenzene | 5.4 | 27 | 0.0015 | 1,500 | 0.00093 I | ND | ND |
| **SVOCs (mg/kg)** | | | | | ND | ND | ND |
| Fluoranthene | 230 | 2,200 | 7 | 3,200 | 0.075 I | ND | ND |
| Pyrene | 170 | 1,700 | 0.95 | 2,400 | 0.077 I | ND | ND |
| **Metals (mg/kg)** | | | | | | | |
| Lead - {16}* | 400 | 800 | NE | NE | 7.5 | 8.3 | 6.6 |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
BTEX = Benzene, toluene, ethybenzene & xylenes. SVOCs = Semi Volatile Organic Compounds.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

## Table 6 - Groundwater QC Sample Laboratory Analytical Results Summary
## Site 2 - Engineering Area Former UST

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | Sample Number & Results | | |
|---|---|---|---|---|---|
| | RSL Tapwater (µg/L) | RSL MCL (µg/L) | 02-GW-01 | Rinsate Blank | Trip Blank |
| **BTEX (µg/L)** | | | | | |
| Benzene | **0.39** | 5 | **0.64 I** | ND | ND |
| Ethylbenzene | **1.3** | 700 | **49** | ND | ND |
| Toluene | 86 | 1,000 | 0.72 I | ND | ND |
| Xylenes | 19 | 10,000 | 2 I | ND | ND |
| **SVOCs (µg/L)** | | | | | |
| Acenaphthene | 40 | NE | 0.91 I | ND | NA |
| Anthracene | 130 | NE | 0.29 I | ND | NA |
| Fluoranthene | 63 | NE | 0.68 I | ND | NA |
| Fluorene | 22 | NE | 6.0 I | ND | NA |
| Naphthalene | **0.14** | NE | **19** | ND | NA |
| Phenanthrene | NE | NE | 0.77 I | ND | NA |
| Pyrene | 8.7 | NE | 0.48 I | ND | NA |
| 1-Methylnaphthalene | **0.97** | NE | **13** | ND | NA |
| 2-Methylnaphthalene | **2.7** | NE | **18** | ND | NA |
| **GRO (µg/L)** | NE | NE | NA | ND | NA |
| **DRO (µg/L)** | NE | NE | NA | 72 IV | NA |
| **PCBs** | NAP | NAP | NA | ND | NA |
| **Metals (mg/L)** | | | | | |
| Lead | NE | 15 | 0.0043 I | ND | NA |
| Mercury | 0.063 | 2 | NA | 0.00012 IV | NA |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
MCL = EPA maximum contaminant level for drinking water.
ESV = ecological screening values for soil and sediment in Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment (EPA 2001)
BTEX = Benzene, toluene, ethybenzene & xylenes. SVOCs = Semi Volatile Organic Compounds.
DRO = Diesel Range Organics. GRO = Gasoline Range Organics. NAP = Not applicable, parameter group not detected.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/L = milligrams per liter. µg/L = micrograms per liter. NE = Value not established. ND = not detected. NA = Sample not analyzed for this parameter.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

**Table 7 - Soil Sample Laboratory Analytical Results Summary**
**Site 3 - Grounds and Landscaping Chemical Storage Sheds**

| | Screening Criteria | | | Sample Number & Results | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Soil Sample Analytical Parameters (Units)** | **RSL Resident Soil (mg/kg)** | **RSL Industrial Soil (mg/kg)** | **RSL SSL (mg/kg)** | **03-SS-01** | **03-SS-02** | **03-SS-03** | **03-SS-04** | **03-SS-05** | **03-SS-06** |
| **Organophosphorous Pesticides (mg/kg)** | | | | | | | | | |
| Malathion | 120 | 1,200 | **0.0079** | ND | **0.0090 I** | ND | ND | ND | **0.14** |
| **Organochlorine Pesticides (mg/kg)** | | | | | | | | | |
| 4,4'-DDD | 2 | 7.2 | 0.0064 | 0.00013 I | 0.001 | 0.00074 I | ND | 0.0011 | ND |
| 4,4'-DDE | 1.4 | 5.1 | **0.046** | 0.0037 | 0.022 | 0.019 | **0.1** | **0.2** | 0.032 |
| 4,4'-DDT | 1.7 | 7 | 0.067 | 0.0013 | 0.012 | 0.0028 | 0.0066 | 0.022 | 0.0098 |
| Aldrin | 0.029 | 0.1 | 0.00065 | ND | ND | 0.00033 I | ND | 0.00046 I | ND |
| alpha-Chlordane | 1.6 | 6.5 | **0.013** | ND | ND | **0.04** | ND | **0.069** | 0.013 |
| beta-BHC | 0.27 | 0.96 | **0.00013** | ND | ND | **0.00049 I** | ND | ND | ND |
| Dieldrin | 0.03 | 0.11 | **0.000061** | ND | **0.0013** | **0.013** | ND | **0.026** | **0.024** |
| Endosulfan I | 37 | 370 | 0.11 | ND | 0.014 | ND | ND | ND | ND |
| Endosulfan II | 37 | 370 | 0.11 | ND | 0.017 | 0.0021 | ND | ND | 0.0028 |
| Endosulfan sulfate | 37 | 370 | 0.11 | ND | 0.0097 | 0.0013 | ND | ND | 0.0011 |
| Endrin | 1.8 | 18 | 0.0068 | 0.00079 I | ND | ND | ND | ND | ND |
| gamma-BHC (Lindane) | 0.52 | 2.1 | **0.00021** | ND | ND | ND | ND | ND | **0.0021** |
| gamma-Chlordane | 1.6 | 6.5 | **0.013** | ND | ND | **0.023** | ND | **0.034** | 0.0048 |
| Heptachlor | 0.11 | 0.38 | **0.00014** | ND | ND | ND | ND | **0.00065 I** | ND |
| Heptachlor epoxide | 0.053 | 0.19 | **0.000068** | ND | ND | ND | ND | **0.0018** | ND |
| **Herbicides** | NAP | NAP | NAP | ND | ND | ND | ND | ND | ND |
| **Nutrients (mg/kg)** | | | | | | | | | |
| Nitrate as N | 13,000 | 160,000 | NE | 15 | 20 | 13 | 12 | 13 | 170 |
| Nitrite as N | 780 | 10,000 | NE | 15 | 13 | 14 | ND | 14 | ND |
| Nitrate Nitrite as N | NE | NE | NE | 30 | 33 | 27 | 12 | 27 | 170 |
| **Metals (mg/kg)** | | | | | | | | | |
| Silver - {NE}* | 39 | 510 | **0.06** | ND | ND | ND | ND | **0.23 I** | **0.26 I** |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | **1.1** | **15** | **2.5** | **4** | **1.6** | **30** |
| Barium - {440}* | 1,500 | 19,000 | **12** | **36** | **58** | **42** | **59** | **42** | **41** |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | 0.16 I | 0.40 I | 0.38 I | 0.47 I | 0.27 I | 0.61 |
| Chromium - {37}* | NE | NE | NE | 17 | 45 | 24 | 33 | 33 | 56 |
| Lead - {16}* | 400 | 800 | NE | 7.7 | 15 | 20 | 41 | 13 | 9.1 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | **1.6** | **0.51 I** | **0.57 I** | **0.68 I** | ND | ND |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | ND | **0.019** | ND | **0.021** | **0.032** | **0.025** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR TPH Limit = U.S. Virgin Islands Department of Planning and Natural Resources, Total Petroleum Hydrocarbon Limit
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected. NAP = Not applicable, parameter group not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

## Table 8 - Soil Sample Laboratory Analytical Results Summary
## Site 4 - Grounds and Landscaping Equipment Maintenance Building

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | |
|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 04-SS-01 | 04-SS-02 |
| **SVOCs (mg/kg)** | | | | | | |
| Benzo[b]fluoranthene | 0.15 | 2.1 | **0.035** | NE | ND | **0.070 I** |
| **GRO (mg/kg)** | NE | NE | NE | 100 | ND | 0.092 I |
| **ORO (mg/kg)** | NE | NE | NE | NE | 220 | 86 |
| **Metals (mg/kg)** | | | | | | |
| Silver - {NE}* | 39 | 510 | 0.06 | NE | ND | ND |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | **4.9** | **4.6** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | **40** | **34** |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | NE | 0.50 I | 0.40 I |
| Chromium - {37}* | NE | NE | NE | NE | 37 | 27 |
| Lead - {16}* | 400 | 800 | NE | NE | 41 | 16 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | ND | **0.56 I** |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | **0.028 V** | **0.031 V** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
SVOCs = Semi Volatile Organic Compounds. GRO = Gasoline Range Organics. ORO = Oil Range Organics.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample result
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

## Table 9 - Soil Sample Laboratory Analytical Results Summary
## Site 5 - Emergency Generator Building

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | | | |
|---|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 05-SS-01 | 05-SS-02 | 05-SS-03 | 05-SS-04 |
| **SVOCs (mg/kg)** | | | | | ND | | ND | ND |
| Pyrene | 170 | 1,700 | 0.95 | 2,400 | ND | 0.083 I | ND | ND |
| **DRO (mg/kg)** | NE | NE | NE | **100** | **310** | **620** | 98 | **480** |
| **ORO (mg/kg)** | NE | NE | NE | NE | 93 | 590 | 79 | 110 |
| **Metals (mg/kg)** | | | | | | | | |
| Silver - {NE}* | 39 | 510 | **0.06** | NE | **3.5** | **1.1** | **0.45 I** | **0.38 I** |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | **30** | **35** | **49** | **57** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | **88** | **38** | **67** | **81** |
| Cadmium - {NE}* | **7 (Diet)** | 80 (Diet) | NE | NE | **7.3** | 4.5 | 4.4 | 1.8 |
| Chromium - {37}* | NE | NE | NE | NE | 90 | 68 | 60 | 37 |
| Lead - {16}* | 400 | 800 | NE | NE | 180 | 100 | 83 | 59 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | **1.1 IV** | ND | ND | ND |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | **0.083** | **0.34** | **0.026** | **0.022** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
SVOCs = Semi Volatile Organic Compounds. DRO = Diesel Range Organics. ORO = Oil Range Organics.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

**Table 10 - Soil Sample Laboratory Analytical Results Summary**
**Site 6 - Wastewater Treatment Plant**

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | | |
|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 06-SS-01 | 06-SS-02 | 06-SS-03 |
| **SVOCs (µg/kg)** | | | | | | | |
| Acenaphthene | 340 | 3,300 | 0.41 | 2,400 | ND | ND | 0.0065 I |
| Anthracene | 1,700 | 17,000 | 4.2 | 21,000 | ND | ND | 0.12 I |
| Benzo[a]anthracene | **0.15** | 2.1 | **0.01** | NE | ND | ND | **0.20 I** |
| Benzo[a]pyrene | **0.015** | 0.21 | **0.0035** | **0.1** | ND | **0.049** | **0.16 I** |
| Benzo[b]fluoranthene | **0.15** | 2.1 | **0.035** | NE | ND | ND | **0.20 I** |
| Benzo[g,h,i]perylene | NE | NE | NE | 2,500 | ND | ND | 0.085 I |
| Benzo[k]fluoranthene | 1.5 | 21 | 0.35 | NE | ND | ND | 0.0069 I |
| Chrysene | 15 | 210 | 1.1 | NE | ND | ND | 0.17 I |
| Fluoranthene | 230 | 2,200 | 7 | 3,200 | ND | 0.062 I | 0.43 I |
| Fluorene | 230 | 2,200 | 0.4 | 2,600 | ND | ND | 0.041 I |
| Indeno[1,2,3-cd]pyrene | 0.15 | 2.1 | 0.2 | NE | ND | 0.042 I | 0.085 I |
| Phenanthrene | NE | NE | NE | 2,200 | ND | ND | 0.41 I |
| Pyrene | 170 | 1,700 | 0.95 | 2,400 | 0.066 I | 0.080 I | 0.36 I |
| **ORO (mg/kg)** | NE | NE | NE | NE | 4,100 | 52 | 3.6 IV |
| **PCBs (mg/kg)** | NAP | NAP | NAP | NAP | ND | ND | ND |
| **Metals (mg/kg)** | | | | | | | |
| Silver - {NE}* | 39 | 510 | **0.06** | NE | ND | **0.62 I** | ND |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | **5.3** | **5.6** | **4** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | **47** | **70** | **55** |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | NE | 0.35 I | 0.65 I | 0.28 I |
| Chromium - {37}* | NE | NE | NE | NE | 45 | 71 | 63 |
| Lead - {16}* | 400 | 800 | NE | NE | 14 | 23 | 19 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | **0.77 IV** | **1.0 IV** | ND |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | **0.03** | **0.27** | **0.017 I** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
PCBs = Polychlorinated biphenyls.
SVOCs = Semi Volatile Organic Compounds. DRO = Diesel Range Organics. ORO = Oil Range Organics.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected. NAP = Not applicable, parameter group not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

**Table 11 - Soil Sample Laboratory Analytical Results Summary**
**Site 7 - Debris Landfill**

| Soil Sample Analytical Parameters (Units) | Screening Criteria | | | | Sample Number & Results | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | RSL Resident Soil (mg/kg) | RSL Industrial Soil (mg/kg) | RSL SSL (mg/kg) | DPNR (mg/kg) | 07-SS-01 | 07-SS-05 (Duplicate of 07-SS-01) | 07-SS-02 | 07-SS-03 | 07-SS-04 |
| **Organophosphorous Pesticides** | NAP | NAP | NAP | NAP | ND | ND | ND | ND | ND |
| **Organochlorine Pesticides (mg/kg)** | | | | | | | | | |
| 4,4'-DDD | 2 | 7.2 | 0.0064 | NE | 0.00012 I | ND | ND | ND | 0.0014 I |
| 4,4'-DDE | 1.4 | 5.1 | 0.046 | NE | 0.00065 I | ND | 0.0085 | 0.013 | 0.021 |
| 4,4'-DDT | 1.7 | 7 | 0.067 | NE | 0.00049 I | ND | 0.0016 I | 0.0042 I | 0.0087 I |
| alpha-Chlordane | 1.6 | 6.5 | 0.013 | NE | ND | ND | 0.0019 I | 0.0017 I | ND |
| Dieldrin | 0.03 | 0.11 | **0.000061** | NE | ND | ND | **0.0010 I** | **0.00059 I** | **0.0012 I** |
| gamma-Chlordane | 1.6 | 6.5 | 0.013 | NE | ND | ND | 0.00088 I | 0.00065 I | ND |
| **Herbicides** | NAP | NAP | NAP | NAP | ND | ND | ND | ND | ND |
| **SVOCs (µg/kg)** | | | | | | | | | |
| Anthracene | 1,700 | 17,000 | 4.2 | 21,000 | ND | ND | 0.042 I | ND | 0.031 I |
| Benzo[a]anthracene | **0.15** | 2.1 | **0.01** | NE | ND | ND | **0.24 I** | **0.052 I** | **0.11 I** |
| Benzo[a]pyrene | **0.015** | 0.21 | **0.0035** | **0.1** | ND | ND | **0.21 I** | **0.068 I** | **0.11 I** |
| Benzo[b]fluoranthene | **0.15** | 2.1 | **0.035** | NE | ND | ND | **0.31 I** | **0.10 I** | **0.14 I** |
| Benzo[g,h,i]perylene | NE | NE | NE | 2,500 | ND | ND | 0.14 I | 0.053 I | 0.063 I |
| Benzo[k]fluoranthene | 1.5 | 21 | 0.35 | NE | ND | ND | 0.10 I | ND | 0.053 I |
| Chrysene | 15 | 210 | 1.1 | NE | ND | ND | 0.23 I | 0.040 I | 0.12 I |
| Fluoranthene | 230 | 2,200 | 7 | 3,200 | ND | ND | 0.48 I | 0.13 I | 0.28 I |
| Indeno[1,2,3-cd]pyrene | 0.15 | 2.1 | 0.2 | NE | ND | ND | 0.13 I | 0.051 I | 0.060 I |
| Phenanthrene | NE | NE | NE | 2,200 | ND | ND | 0.20 I | 0.052 I | 0.15 I |
| Pyrene | 170 | 1,700 | 0.95 | 2,400 | ND | ND | 0.41 I | 0.11 I | 0.23 I |
| **PCBs (mg/kg)** | | | | | | | | | |
| PCB-1260 | 0.22 | 0.74 | **0.024** | NE | ND | ND | ND | **0.028** | **0.039** |
| **Metals (mg/kg)** | | | | | | | | | |
| Silver - {NE}* | 39 | 510 | 0.06 | NE | ND | ND | ND | ND | ND |
| Arsenic - {5.2}* | **0.61** | **2.4** | **0.0013** | NE | **0.8** | **0.7** | **5.8** | **4.3** | **2.1** |
| Barium - {440}* | 1,500 | 19,000 | **12** | NE | **80** | **51** | **79** | **58** | **72** |
| Cadmium - {NE}* | 7 (Diet) | 80 (Diet) | NE | NE | ND | ND | 0.29 I | 0.39 I | 0.25 I |
| Chromium - {37}* | NE | NE | NE | NE | 14 | 14 | 27 | 36 | 30 |
| Lead - {16}* | 400 | 800 | NE | NE | 5.4 | 5.6 | 11 | 10 | 15 |
| Selenium - {0.26}* | 39 | 510 | **0.04** | NE | ND | **0.49 IV** | ND | **0.68 IV** | **0.82 IV** |
| Mercury - {0.058}* | 1 | 4.3 | **0.0033** | NE | **0.018** | **0.021** | **0.04** | **0.052** | **0.059** |

Notes:
RSL = U.S. EPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, November 2013
RSL SSL = Soil screening level for protection of groundwater. *Metals numbers in {brackets} are mean background values in conterminous U.S.
DPNR = U.S. Virgin Islands Department of Planning and Natural Resources Cleanup Standards
PCBs = Polychlorinated biphenyls.
SVOCs = Semi Volatile Organic Compounds.
**Bold & underlined** sample results exceed one or more of the screening criteria. **Bold** screening criteria are exceeded by one or more sample results.
Non-detect analytes may not be shown on the table.
Mg/kg = milligrams per kilogram. NE = Value not established. ND = not detected. NAP = Not applicable, parameter group not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Yellow highlight indicates that metals value exceeds RSL and 1.5 times the background level.

# Appendix D

# Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85394-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*1/31/2014 5:48:15 PM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Job ID: 400-85394-1

**Laboratory: TestAmerica Pensacola**

**Narrative**

**Job Narrative**
**400-85394-1**

**GC/MS Semi VOA**
Method(s) 8141A: The continuing calibration verification (CCV) associated with batch 205696 recovered above the upper control limit for Dichlorvos. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9), 01-SD-04 (400-85394-10).

Method(s) 8141A: The following samples were diluted due to the dark oily nature of the sample matrix: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to the extracts dark color: 01-SS-01 (400-85394-1), 01-SS-02 (400-85394-2), 01-SS-04 (400-85394-4), 01-SD-01 (400-85394-7), 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9), 04-SS-01 (400-85394-11), 04-SS-02 (400-85394-12). Elevated reporting limits (RL) are provided.

**GC Semi VOA**
Method(s) 8015C: The method blank for batch 204695 contained C10-C28 and C28-C35 results above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8015C: The following samples were diluted due to the dark color and thick viscosity: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9), 04-SS-01 (400-85394-11). Elevated reporting limits (RL) are provided.

Method(s) 8081B: The following samples were diluted due to the dark color and thick viscosity: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9). Elevated reporting limits (RL) are provided.

Method(s) 8082A: The TCMX surrogate recovery for sample 01-SD-02 (400-85394-8) is within control limits, however, the DCB surrogate recovery is low outside control limits. The sample is non-detect and reported.

Method(s) 8151A: The following samples were diluted due to dark, yellow color: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9). Elevated reporting limits (RL) are provided.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 205585 recovered above the upper control limit for Dalapon. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 01-SD-02 (400-85394-8), 01-SD-03 (400-85394-9), 01-SD-04 (400-85394-10).

**Metals**
Method(s) 6010C: The low level check standard (CCVL) recovery associated with batch 205601 is outside the acceptance criteria for the following analyte: As. Because the target analyte result is greater than 5 times the reporting limit (RL), CCV is referenced rather than the low level standard (CCVL). The following samples are affected: 01-SS-01 (400-85394-1), 01-SS-03 (400-85394-3), 01-SS-05 (400-85394-5), 01-SS-06 (400-85394-6), 04-SS-01 (400-85394-11), 04-SS-02 (400-85394-12).

Method(s) 6010C: The low level check standard (CCVL) recovery associated with batch 205781 is outside the acceptance criteria for the following analyte: As. Because the target analyte result is greater than 5 times the reporting limit (RL), CCV is referenced rather than the low level standard (CCVL). The following sample is affected: 01-SS-04 (400-85394-4).

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8141A | Organophosphorous Pesticides (GC/MS) | SW846 | TAL PEN |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8015C | GRO by 8015C | SW846 | TAL PEN |
| 8015C | Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | SW846 | TAL PEN |
| 8081B | Organochlorine Pesticides (GC) | SW846 | TAL PEN |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PEN |
| 8151A | Herbicides (GC) | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7471B | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846 | TAL PEN |
| Moisture | Percent Moisture | EPA | TAL PEN |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Solid | 01/11/14 12:30 | 01/15/14 09:17 |
| 400-85394-2 | 01-SS-02 | Solid | 01/11/14 12:45 | 01/15/14 09:17 |
| 400-85394-3 | 01-SS-03 | Solid | 01/11/14 13:45 | 01/15/14 09:17 |
| 400-85394-4 | 01-SS-04 | Solid | 01/11/14 14:20 | 01/15/14 09:17 |
| 400-85394-5 | 01-SS-05 | Solid | 01/11/14 14:50 | 01/15/14 09:17 |
| 400-85394-6 | 01-SS-06 | Solid | 01/11/14 15:10 | 01/15/14 09:17 |
| 400-85394-7 | 01-SD-01 | Solid | 01/11/14 16:10 | 01/15/14 09:17 |
| 400-85394-8 | 01-SD-02 | Solid | 01/13/14 10:15 | 01/15/14 09:17 |
| 400-85394-9 | 01-SD-03 | Solid | 01/13/14 10:25 | 01/15/14 09:17 |
| 400-85394-10 | 01-SD-04 | Solid | 01/13/14 14:00 | 01/15/14 09:17 |
| 400-85394-11 | 04-SS-01 | Solid | 01/12/14 15:30 | 01/15/14 09:17 |
| 400-85394-12 | 04-SS-02 | Solid | 01/12/14 15:50 | 01/15/14 09:17 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-01

**Date Collected: 01/11/14 12:30**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-1

**Matrix: Solid**
**Percent Solids: 77.8**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Acenaphthylene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Benzo[a]anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Benzo[a]pyrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Benzo[b]fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Benzo[g,h,i]perylene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Benzo[k]fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Chrysene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Dibenz(a,h)anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Fluorene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Naphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| Phenanthrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| **Pyrene** | **0.094** | **I** | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| 1-Methylnaphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |
| 2-Methylnaphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:57 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *81* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 11:57* | *5* |
| *Nitrobenzene-d5 (Surr)* | *88* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 11:57* | *5* |
| *Terphenyl-d14 (Surr)* | *89* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 11:57* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.061 | U | 0.12 | 0.061 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 14:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 14:53* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **370** | | 6.4 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 14:59 | 1 |
| **Oil Range Organics (C28-C35)** | **350** | | 6.4 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 14:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *86* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 14:59* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0028 | U | 0.011 | 0.0028 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1221 | 0.0096 | U | 0.011 | 0.0096 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1232 | 0.010 | U | 0.011 | 0.010 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1242 | 0.0064 | U | 0.011 | 0.0064 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1248 | 0.0021 | U | 0.011 | 0.0021 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1254 | 0.0036 | U | 0.011 | 0.0036 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |
| PCB-1260 | 0.0039 | U | 0.011 | 0.0039 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:25 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-01

**Date Collected: 01/11/14 12:30**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-1

**Matrix: Solid**
**Percent Solids: 77.8**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *49* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 14:25* | *1* |
| *Tetrachloro-m-xylene* | *67* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 14:25* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.28 | U | 0.70 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |
| **Arsenic** | **7.8** | | 0.70 | 0.56 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:02 | 1 |
| **Barium** | **53** | | 1.4 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |
| **Cadmium** | **0.46** | **I** | 0.70 | 0.14 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |
| **Chromium** | **32** | | 1.4 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |
| **Lead** | **19** | | 0.70 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |
| Selenium | 0.56 | U | 1.4 | 0.56 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 17:55 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.028** | **V** | 0.019 | 0.011 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:09 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-02

**Date Collected: 01/11/14 12:45**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-2

**Matrix: Solid**
**Percent Solids: 80.5**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Acenaphthylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Benzo[a]anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Benzo[a]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Benzo[b]fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Benzo[g,h,i]perylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Benzo[k]fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Chrysene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Dibenz(a,h)anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Fluorene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Naphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Phenanthrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| Pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| 1-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |
| 2-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 12:30 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *81* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 12:30* | *5* |
| *Nitrobenzene-d5 (Surr)* | *85* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 12:30* | *5* |
| *Terphenyl-d14 (Surr)* | *91* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 12:30* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.062 | U | 0.12 | 0.062 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 15:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 15:23* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **27** | | 6.1 | 2.1 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:09 | 1 |
| **Oil Range Organics (C28-C35)** | **33** | | 6.1 | 2.1 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *100* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 15:09* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0027 | U | 0.010 | 0.0027 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1221 | 0.0092 | U | 0.010 | 0.0092 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1232 | 0.0098 | U | 0.010 | 0.0098 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1242 | 0.0061 | U | 0.010 | 0.0061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1248 | 0.0020 | U | 0.010 | 0.0020 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1254 | 0.0034 | U | 0.010 | 0.0034 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |
| PCB-1260 | 0.0037 | U | 0.010 | 0.0037 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:50 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-02

**Date Collected: 01/11/14 12:45**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-2

**Matrix: Solid**
**Percent Solids: 80.5**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *59* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 14:50* | *1* |
| *Tetrachloro-m-xylene* | *96* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 14:50* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.25 | U | 0.63 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |
| **Arsenic** | **2.6** | | 0.63 | 0.51 | mg/Kg | ☼ | 01/16/14 08:27 | 01/27/14 12:30 | 1 |
| **Barium** | **57** | | 1.3 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |
| **Cadmium** | **0.26** | **I** | 0.63 | 0.13 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |
| **Chromium** | **33** | | 1.3 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |
| **Lead** | **26** | | 0.63 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |
| **Selenium** | **0.74** | **I** | 1.3 | 0.51 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:12 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.051** | **V** | 0.019 | 0.012 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:16 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-03

**Date Collected: 01/11/14 13:45**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-3

**Matrix: Solid**
**Percent Solids: 74.2**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Acenaphthylene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Anthracene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Benzo[a]anthracene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Benzo[a]pyrene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Benzo[b]fluoranthene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Benzo[g,h,i]perylene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Benzo[k]fluoranthene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Chrysene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Dibenz(a,h)anthracene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Fluoranthene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Fluorene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Naphthalene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Phenanthrene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| Pyrene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| 1-Methylnaphthalene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |
| 2-Methylnaphthalene | 0.013 | U | 0.44 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *75* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 13:04* | *1* |
| *Nitrobenzene-d5 (Surr)* | *84* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 13:04* | *1* |
| *Terphenyl-d14 (Surr)* | *77* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 13:04* | *1* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.059 | U | 0.12 | 0.059 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 15:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *100* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 15:51* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.1** | **I V** | 6.7 | 2.3 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:19 | 1 |
| **Oil Range Organics (C28-C35)** | **3.6** | **I V** | 6.7 | 2.3 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *94* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 15:19* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0029 | U | 0.011 | 0.0029 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1221 | 0.010 | U | 0.011 | 0.010 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1232 | 0.011 | U | 0.011 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1242 | 0.0067 | U | 0.011 | 0.0067 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1248 | 0.0022 | U | 0.011 | 0.0022 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1254 | 0.0037 | U | 0.011 | 0.0037 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |
| PCB-1260 | 0.0041 | U | 0.011 | 0.0041 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:15 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-03

**Date Collected: 01/11/14 13:45**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-3

**Matrix: Solid**
**Percent Solids: 74.2**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *48* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 15:15* | *1* |
| *Tetrachloro-m-xylene* | *75* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 15:15* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.25 | U | 0.62 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |
| **Arsenic** | **5.7** | | 0.62 | 0.50 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:09 | 1 |
| **Barium** | **95** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |
| **Cadmium** | **0.26** | **I** | 0.62 | 0.12 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |
| **Chromium** | **39** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |
| **Lead** | **8.0** | | 0.62 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |
| Selenium | 0.50 | U | 1.2 | 0.50 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:16 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.036** | **V** | 0.021 | 0.012 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:19 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-04

**Date Collected: 01/11/14 14:20**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-4

**Matrix: Solid**
**Percent Solids: 69.1**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Acenaphthylene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Anthracene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Benzo[a]anthracene** | **0.081** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Benzo[a]pyrene** | **0.11** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Benzo[b]fluoranthene** | **0.16** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Benzo[g,h,i]perylene** | **0.11** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Benzo[k]fluoranthene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Chrysene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Dibenz(a,h)anthracene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Fluoranthene** | **0.28** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Fluorene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Indeno[1,2,3-cd]pyrene** | **0.089** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| Naphthalene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Phenanthrene** | **0.17** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| **Pyrene** | **0.30** | **I** | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| 1-Methylnaphthalene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |
| 2-Methylnaphthalene | 0.072 | U | 2.4 | 0.072 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 13:37 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *76* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 13:37* | *5* |
| *Nitrobenzene-d5 (Surr)* | *84* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 13:37* | *5* |
| *Terphenyl-d14 (Surr)* | *81* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 13:37* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.069 | U | 0.14 | 0.069 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 16:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 16:18* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **300** | | 7.2 | 2.5 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:28 | 1 |
| **Oil Range Organics (C28-C35)** | **230** | | 7.2 | 2.5 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *82* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 15:28* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0031 | U | 0.012 | 0.0031 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1221 | 0.011 | U | 0.012 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1232 | 0.011 | U | 0.012 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1242 | 0.0071 | U | 0.012 | 0.0071 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1248 | 0.0023 | U | 0.012 | 0.0023 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1254 | 0.0040 | U | 0.012 | 0.0040 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |
| PCB-1260 | 0.0043 | U | 0.012 | 0.0043 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 15:40 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-04

**Date Collected: 01/11/14 14:20**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-4

**Matrix: Solid**
**Percent Solids: 69.1**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *54* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 15:40* | *1* |
| *Tetrachloro-m-xylene* | *72* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 15:40* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.55 | U | 1.4 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |
| **Arsenic** | **19** | | 3.4 | 2.7 | mg/Kg | ☼ | 01/16/14 08:27 | 01/24/14 16:07 | 5 |
| **Barium** | **120** | | 2.7 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |
| **Cadmium** | **2.1** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |
| **Chromium** | **76** | | 2.7 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |
| **Lead** | **130** | | 1.4 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |
| Selenium | 1.1 | U | 2.7 | 1.1 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:19 | 2 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.11** | **V** | 0.021 | 0.013 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:20 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-05

**Date Collected: 01/11/14 14:50**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-5

**Matrix: Solid**
**Percent Solids: 76.4**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Acenaphthylene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Benzo[a]anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Benzo[a]pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Benzo[b]fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Benzo[g,h,i]perylene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Benzo[k]fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Chrysene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Dibenz(a,h)anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Fluorene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Naphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Phenanthrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| Pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| 1-Methylnaphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |
| 2-Methylnaphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *74* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 14:11* | *1* |
| *Nitrobenzene-d5 (Surr)* | *87* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 14:11* | *1* |
| *Terphenyl-d14 (Surr)* | *82* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 14:11* | *1* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.065 | U | 0.13 | 0.065 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 16:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *102* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 16:46* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **10** | **V** | 6.5 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:38 | 1 |
| **Oil Range Organics (C28-C35)** | **12** | **V** | 6.5 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *97* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 15:38* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0028 | U | 0.011 | 0.0028 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1221 | 0.0097 | U | 0.011 | 0.0097 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1232 | 0.010 | U | 0.011 | 0.010 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1242 | 0.0065 | U | 0.011 | 0.0065 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1248 | 0.0021 | U | 0.011 | 0.0021 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1254 | 0.0036 | U | 0.011 | 0.0036 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |
| PCB-1260 | 0.0039 | U | 0.011 | 0.0039 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:05 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-05

**Date Collected: 01/11/14 14:50**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-5

**Matrix: Solid**
**Percent Solids: 76.4**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *63* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 16:05* | *1* |
| *Tetrachloro-m-xylene* | *104* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 16:05* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.27 | U | 0.67 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |
| **Arsenic** | **15** | | 0.67 | 0.53 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:25 | 1 |
| **Barium** | **110** | | 1.3 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |
| **Cadmium** | **0.48** | **I** | 0.67 | 0.13 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |
| **Chromium** | **52** | | 1.3 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |
| **Lead** | **37** | | 0.67 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |
| **Selenium** | **0.62** | **I** | 1.3 | 0.53 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:22 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.064** | **V** | 0.020 | 0.012 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:30 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-06

**Date Collected: 01/11/14 15:10**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-6

**Matrix: Solid**
**Percent Solids: 68.9**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| Acenaphthylene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| Anthracene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Benzo[a]anthracene** | **0.027** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Benzo[a]pyrene** | **0.046** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Benzo[b]fluoranthene** | **0.072** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Benzo[g,h,i]perylene** | **0.036** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Benzo[k]fluoranthene** | **0.027** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Chrysene** | **0.033** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| Dibenz(a,h)anthracene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Fluoranthene** | **0.11** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| Fluorene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **0.031** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| Naphthalene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Phenanthrene** | **0.018** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| **Pyrene** | **0.11** | **I** | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| 1-Methylnaphthalene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |
| 2-Methylnaphthalene | 0.014 | U | 0.47 | 0.014 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 14:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *78* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 14:44* | *1* |
| *Nitrobenzene-d5 (Surr)* | *89* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 14:44* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 14:44* | *1* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.067 | U | 0.13 | 0.067 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 18:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *97* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 18:08* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **19** | **V** | 7.2 | 2.4 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:58 | 1 |
| **Oil Range Organics (C28-C35)** | **16** | **V** | 7.2 | 2.4 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 15:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *104* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 15:58* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0032 | U | 0.012 | 0.0032 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1221 | 0.011 | U | 0.012 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1232 | 0.011 | U | 0.012 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1242 | 0.0072 | U | 0.012 | 0.0072 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1248 | 0.0024 | U | 0.012 | 0.0024 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1254 | 0.0040 | U | 0.012 | 0.0040 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |
| PCB-1260 | 0.0044 | U | 0.012 | 0.0044 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 16:55 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-06

**Date Collected: 01/11/14 15:10**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-6

**Matrix: Solid**
**Percent Solids: 68.9**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *142* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 16:55* | *1* |
| *Tetrachloro-m-xylene* | *74* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 16:55* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.27 | U | 0.68 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |
| **Arsenic** | **42** | | 0.68 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:29 | 1 |
| **Barium** | **79** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |
| **Cadmium** | **1.1** | | 0.68 | 0.14 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |
| **Chromium** | **74** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |
| **Lead** | **18** | | 0.68 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |
| **Selenium** | **0.63** | **I** | 1.4 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:25 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.057** | **V** | 0.022 | 0.013 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:31 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-01

**Date Collected: 01/11/14 16:10**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-7

**Matrix: Solid**
**Percent Solids: 52.4**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Acenaphthylene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Anthracene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Benzo[a]anthracene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| **Benzo[a]pyrene** | **0.12** | **I** | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| **Benzo[b]fluoranthene** | **0.16** | **I** | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| **Benzo[g,h,i]perylene** | **0.11** | **I** | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Benzo[k]fluoranthene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Chrysene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Dibenz(a,h)anthracene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Fluoranthene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Fluorene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Naphthalene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Phenanthrene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| Pyrene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| 1-Methylnaphthalene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |
| 2-Methylnaphthalene | 0.095 | U | 3.1 | 0.095 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:03 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *99* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 21:03* | *5* |
| *Nitrobenzene-d5 (Surr)* | *86* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 21:03* | *5* |
| *Terphenyl-d14 (Surr)* | *98* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 21:03* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.086 | U | 0.17 | 0.086 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 18:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *97* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 18:35* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **24** | **V** | 9.4 | 3.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 16:08 | 1 |
| **Oil Range Organics (C28-C35)** | **30** | | 9.4 | 3.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 16:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *92* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 16:08* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0041 | U | 0.016 | 0.0041 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1221 | 0.014 | U | 0.016 | 0.014 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1232 | 0.015 | U | 0.016 | 0.015 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1242 | 0.0094 | U | 0.016 | 0.0094 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1248 | 0.0031 | U | 0.016 | 0.0031 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1254 | 0.0053 | U | 0.016 | 0.0053 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |
| PCB-1260 | 0.0057 | U | 0.016 | 0.0057 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:20 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-01

**Date Collected: 01/11/14 16:10**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-7

**Matrix: Solid**
**Percent Solids: 52.4**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *30* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 17:20* | *1* |
| *Tetrachloro-m-xylene* | *44* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 17:20* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.42 | U | 1.0 | 0.42 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |
| **Arsenic** | **2.6** | | 1.0 | 0.83 | mg/Kg | ☼ | 01/16/14 08:27 | 01/27/14 12:33 | 1 |
| **Barium** | **71** | | 2.1 | 0.42 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |
| **Cadmium** | **0.31** | **I** | 1.0 | 0.21 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |
| **Chromium** | **40** | | 2.1 | 0.42 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |
| **Lead** | **17** | | 1.0 | 0.42 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |
| Selenium | 0.83 | U | 2.1 | 0.83 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:38 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.071** | **V** | 0.029 | 0.017 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:33 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-02

**Date Collected: 01/13/14 10:15**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-8

**Matrix: Solid**
**Percent Solids: 82.4**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.024 | U | 0.12 | 0.024 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Chlorpyrifos | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Coumaphos | 0.047 | U | 1.2 | 0.047 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Diazinon | 0.054 | U | 0.24 | 0.054 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Dichlorvos | 0.025 | U | 0.24 | 0.025 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Disulfoton | 0.022 | U | 0.24 | 0.022 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Ethoprop | 0.040 | U | 0.12 | 0.040 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Fensulfothion | 0.040 | U | 1.2 | 0.040 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Fenthion | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Methyl parathion | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Mevinphos | 0.047 | U | 0.24 | 0.047 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Phorate | 0.036 | U | 0.12 | 0.036 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Ronnel | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Stirophos | 0.065 | U | 0.12 | 0.065 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Terbutryn | 0.030 | U | 0.12 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Tokuthion | 0.076 | U | 0.12 | 0.076 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Dimethoate | 0.030 | U | 0.24 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| EPN | 0.029 | U | 0.24 | 0.029 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Ethyl Parathion | 0.030 | U | 0.12 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Malathion | 0.023 | U | 0.12 | 0.023 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Sulfotepp | 0.024 | U | 0.12 | 0.024 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Famphur | 0.031 | U | 0.24 | 0.031 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |
| Thionazin | 0.033 | U | 0.12 | 0.033 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:07 | 3 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *81* | | *30 - 164* | *01/16/14 07:39* | *01/28/14 11:07* | *3* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Acenaphthylene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Benzo[a]anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Benzo[a]pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Benzo[b]fluoranthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Benzo[g,h,i]perylene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Benzo[k]fluoranthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Chrysene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Dibenz(a,h)anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Fluoranthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Fluorene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/20/14 19:03 | 5 |
| Naphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Phenanthrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| Pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| 1-Methylnaphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |
| 2-Methylnaphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 21:42 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *95* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 21:42* | *5* |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-02

**Date Collected: 01/13/14 10:15**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-8

**Matrix: Solid**
**Percent Solids: 82.4**

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5 (Surr)* | *85* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 21:42* | *5* |
| *Terphenyl-d14 (Surr)* | *105* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 21:42* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.054 | U | 0.11 | 0.054 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 19:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *94* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 19:03* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **37** | | 6.0 | 2.0 | mg/Kg | ☼ | 01/16/14 07:41 | 01/22/14 12:56 | 1 |
| **Oil Range Organics (C28-C35)** | **65** | | 6.0 | 2.0 | mg/Kg | ☼ | 01/16/14 07:41 | 01/22/14 12:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *93* | | *30 - 118* | *01/16/14 07:41* | *01/22/14 12:56* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| alpha-BHC | 0.00049 | U | 0.010 | 0.00049 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| beta-BHC | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| delta-BHC | 0.00042 | U | 0.010 | 0.00042 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| gamma-BHC (Lindane) | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| alpha-Chlordane | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| gamma-Chlordane | 0.00058 | U | 0.010 | 0.00058 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| **4,4'-DDD** | **0.020** | | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| **4,4'-DDE** | **0.016** | | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| **4,4'-DDT** | **0.0074** | **I** | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| **Dieldrin** | **0.0082** | **I** | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endosulfan I | 0.00096 | U | 0.010 | 0.00096 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endosulfan II | 0.00050 | U | 0.010 | 0.00050 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endosulfan sulfate | 0.0016 | U | 0.010 | 0.0016 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endrin | 0.00047 | U | 0.010 | 0.00047 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endrin aldehyde | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Endrin ketone | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Heptachlor | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Heptachlor epoxide | 0.00060 | U | 0.010 | 0.00060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Methoxychlor | 0.0017 | U | 0.010 | 0.0017 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |
| Toxaphene | 0.10 | U | 0.60 | 0.10 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:24 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *66* | | *47 - 148* | *01/16/14 07:47* | *01/20/14 18:24* | *10* |
| *Tetrachloro-m-xylene* | *68* | | *65 - 134* | *01/16/14 07:47* | *01/20/14 18:24* | *10* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.026 | U | 0.10 | 0.026 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |
| PCB-1221 | 0.090 | U | 0.10 | 0.090 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-02

**Date Collected: 01/13/14 10:15**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-8

**Matrix: Solid**
**Percent Solids: 82.4**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 | 0.096 | U | 0.10 | 0.096 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |
| PCB-1242 | 0.060 | U | 0.10 | 0.060 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |
| PCB-1248 | 0.020 | U | 0.10 | 0.020 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |
| PCB-1254 | 0.034 | U | 0.10 | 0.034 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |
| PCB-1260 | 0.037 | U | 0.10 | 0.037 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:45 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *19* | *J1* | *30 - 150* | *01/16/14 07:47* | *01/20/14 17:45* | *10* |
| *Tetrachloro-m-xylene* | *79* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 17:45* | *10* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.066 | U | 1.2 | 0.066 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| 2,4-DB | 0.042 | U | 0.090 | 0.042 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| 2,4,5-T | 0.020 | U | 0.24 | 0.020 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| Silvex (2,4,5-TP) | 0.10 | U | 0.24 | 0.10 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| Dalapon | 0.43 | U | 7.2 | 0.43 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| Dicamba | 0.0072 | U | 0.36 | 0.0072 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| Dichlorprop | 0.020 | U | 0.78 | 0.020 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| Dinoseb | 0.026 | U | 1.2 | 0.026 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| MCPA | 5.2 | U | 300 | 5.2 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |
| MCPP | 2.4 | U | 300 | 2.4 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:55 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *62* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 20:55* | *5* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.25 | U | 0.61 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |
| **Arsenic** | **1.4** | | 0.61 | 0.49 | mg/Kg | ☼ | 01/16/14 08:27 | 01/27/14 12:36 | 1 |
| **Barium** | **31** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |
| Cadmium | 0.12 | U | 0.61 | 0.12 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |
| **Chromium** | **25** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |
| **Lead** | **3.2** | | 0.61 | 0.25 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |
| Selenium | 0.49 | U | 1.2 | 0.49 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:42 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.10** | **V** | 0.018 | 0.011 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:34 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-03

**Date Collected: 01/13/14 10:25**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-9

**Matrix: Solid**
**Percent Solids: 81.6**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.024 | U | 0.12 | 0.024 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Chlorpyrifos | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Coumaphos | 0.048 | U | 1.2 | 0.048 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Diazinon | 0.055 | U | 0.24 | 0.055 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Dichlorvos | 0.025 | U | 0.24 | 0.025 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Disulfoton | 0.023 | U | 0.24 | 0.023 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Ethoprop | 0.040 | U | 0.12 | 0.040 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Fensulfothion | 0.040 | U | 1.2 | 0.040 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Fenthion | 0.028 | U | 0.12 | 0.028 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Methyl parathion | 0.028 | U | 0.12 | 0.028 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Mevinphos | 0.048 | U | 0.24 | 0.048 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Phorate | 0.037 | U | 0.12 | 0.037 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Ronnel | 0.027 | U | 0.12 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Stirophos | 0.066 | U | 0.12 | 0.066 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Terbutryn | 0.030 | U | 0.12 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Tokuthion | 0.077 | U | 0.12 | 0.077 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Dimethoate | 0.030 | U | 0.24 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| EPN | 0.030 | U | 0.24 | 0.030 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Ethyl Parathion | 0.031 | U | 0.12 | 0.031 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Malathion | 0.023 | U | 0.12 | 0.023 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Sulfotepp | 0.024 | U | 0.12 | 0.024 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Famphur | 0.031 | U | 0.24 | 0.031 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |
| Thionazin | 0.034 | U | 0.12 | 0.034 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 11:40 | 3 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *83* | | *30 - 164* | *01/16/14 07:39* | *01/28/14 11:40* | *3* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Acenaphthylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Benzo[a]anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Benzo[a]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| **Benzo[b]fluoranthene** | **0.081** | **I** | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Benzo[g,h,i]perylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Benzo[k]fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Chrysene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Dibenz(a,h)anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Fluorene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Naphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Phenanthrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| Pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| 1-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |
| 2-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:20 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *90* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 22:20* | *5* |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-03

**Date Collected: 01/13/14 10:25**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-9

**Matrix: Solid**
**Percent Solids: 81.6**

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5 (Surr)* | *83* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 22:20* | *5* |
| *Terphenyl-d14 (Surr)* | *105* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 22:20* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.055 | U | 0.11 | 0.055 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 19:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 19:31* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **17** | **V** | 6.1 | 2.1 | mg/Kg | ☼ | 01/16/14 07:41 | 01/22/14 13:05 | 1 |
| **Oil Range Organics (C28-C35)** | **36** | | 6.1 | 2.1 | mg/Kg | ☼ | 01/16/14 07:41 | 01/22/14 13:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *96* | | *30 - 118* | *01/16/14 07:41* | *01/22/14 13:05* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| alpha-BHC | 0.00050 | U | 0.010 | 0.00050 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| beta-BHC | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| delta-BHC | 0.00042 | U | 0.010 | 0.00042 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| gamma-BHC (Lindane) | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| alpha-Chlordane | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| gamma-Chlordane | 0.00059 | U | 0.010 | 0.00059 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| 4,4'-DDD | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| **4,4'-DDE** | **0.0059** | **I** | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| **4,4'-DDT** | **0.0027** | **I** | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Dieldrin | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endosulfan I | 0.00097 | U | 0.010 | 0.00097 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endosulfan II | 0.00050 | U | 0.010 | 0.00050 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endosulfan sulfate | 0.0016 | U | 0.010 | 0.0016 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endrin | 0.00047 | U | 0.010 | 0.00047 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endrin aldehyde | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Endrin ketone | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Heptachlor | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Heptachlor epoxide | 0.00061 | U | 0.010 | 0.00061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Methoxychlor | 0.0018 | U | 0.010 | 0.0018 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |
| Toxaphene | 0.10 | U | 0.61 | 0.10 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:52 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *75* | | *47 - 148* | *01/16/14 07:47* | *01/20/14 17:52* | *10* |
| *Tetrachloro-m-xylene* | *68* | | *65 - 134* | *01/16/14 07:47* | *01/20/14 17:52* | *10* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0027 | U | 0.010 | 0.0027 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |
| PCB-1221 | 0.0091 | U | 0.010 | 0.0091 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-03

**Date Collected: 01/13/14 10:25**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-9

**Matrix: Solid**
**Percent Solids: 81.6**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 | 0.0097 | U | 0.010 | 0.0097 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |
| PCB-1242 | 0.0061 | U | 0.010 | 0.0061 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |
| PCB-1248 | 0.0020 | U | 0.010 | 0.0020 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |
| PCB-1254 | 0.0034 | U | 0.010 | 0.0034 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |
| PCB-1260 | 0.0037 | U | 0.010 | 0.0037 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 18:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *64* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 18:10* | *1* |
| *Tetrachloro-m-xylene* | *107* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 18:10* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.027 | U | 0.48 | 0.027 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| 2,4-DB | 0.017 | U | 0.036 | 0.017 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| 2,4,5-T | 0.0082 | U | 0.097 | 0.0082 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| Silvex (2,4,5-TP) | 0.041 | U | 0.097 | 0.041 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| Dalapon | 0.17 | U | 2.9 | 0.17 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| Dicamba | 0.0029 | U | 0.14 | 0.0029 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| Dichlorprop | 0.0080 | U | 0.31 | 0.0080 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| Dinoseb | 0.010 | U | 0.48 | 0.010 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| MCPA | 2.1 | U | 120 | 2.1 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |
| MCPP | 0.97 | U | 120 | 0.97 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:19 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *61* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 21:19* | *2* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.24 | U | 0.59 | 0.24 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |
| **Arsenic** | **0.99** | | 0.59 | 0.48 | mg/Kg | ☼ | 01/16/14 08:27 | 01/27/14 12:40 | 1 |
| **Barium** | **18** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |
| **Cadmium** | **0.13** | **I** | 0.59 | 0.12 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |
| **Chromium** | **16** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |
| **Lead** | **6.7** | | 0.59 | 0.24 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |
| Selenium | 0.48 | U | 1.2 | 0.48 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:45 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.017** | **I V** | 0.018 | 0.011 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:36 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-04

**Date Collected: 01/13/14 14:00**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-10

**Matrix: Solid**
**Percent Solids: 76.0**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0086 | U | 0.043 | 0.0086 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Chlorpyrifos | 0.0098 | U | 0.043 | 0.0098 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Coumaphos | 0.017 | U | 0.43 | 0.017 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Diazinon | 0.020 | U | 0.086 | 0.020 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Dichlorvos | 0.0090 | U | 0.086 | 0.0090 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Disulfoton | 0.0081 | U | 0.086 | 0.0081 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Ethoprop | 0.014 | U | 0.043 | 0.014 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Fensulfothion | 0.014 | U | 0.43 | 0.014 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Fenthion | 0.0099 | U | 0.043 | 0.0099 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Methyl parathion | 0.0099 | U | 0.043 | 0.0099 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Mevinphos | 0.017 | U | 0.086 | 0.017 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Phorate | 0.013 | U | 0.043 | 0.013 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Ronnel | 0.0097 | U | 0.043 | 0.0097 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Stirophos | 0.024 | U | 0.043 | 0.024 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Terbutryn | 0.011 | U | 0.043 | 0.011 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Tokuthion | 0.027 | U | 0.043 | 0.027 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Dimethoate | 0.011 | U | 0.086 | 0.011 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| EPN | 0.011 | U | 0.086 | 0.011 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Ethyl Parathion | 0.011 | U | 0.043 | 0.011 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Malathion | 0.0084 | U | 0.043 | 0.0084 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Sulfotepp | 0.0086 | U | 0.043 | 0.0086 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Famphur | 0.011 | U | 0.086 | 0.011 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |
| Thionazin | 0.012 | U | 0.043 | 0.012 | mg/Kg | ☼ | 01/16/14 07:39 | 01/28/14 12:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *73* | | *30 - 164* | *01/16/14 07:39* | *01/28/14 12:13* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Acenaphthylene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Benzo[a]anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Benzo[a]pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Benzo[b]fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Benzo[g,h,i]perylene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Benzo[k]fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Chrysene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Dibenz(a,h)anthracene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Fluoranthene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Fluorene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Naphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Phenanthrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| Pyrene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| 1-Methylnaphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |
| 2-Methylnaphthalene | 0.013 | U | 0.43 | 0.013 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 11:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *71* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 11:23* | *1* |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-04

**Date Collected: 01/13/14 14:00**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-10

**Matrix: Solid**
**Percent Solids: 76.0**

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5 (Surr)* | *80* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 11:23* | *1* |
| *Terphenyl-d14 (Surr)* | *74* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 11:23* | *1* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.059 | U | 0.12 | 0.059 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 19:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *95* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 19:58* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.7** | **I V** | 6.5 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 14:29 | 1 |
| **Oil Range Organics (C28-C35)** | **2.6** | **I V** | 6.5 | 2.2 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 14:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *89* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 14:29* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| alpha-BHC | 0.000054 | U | 0.0011 | 0.000054 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| beta-BHC | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| delta-BHC | 0.000046 | U | 0.0011 | 0.000046 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| gamma-BHC (Lindane) | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| alpha-Chlordane | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| gamma-Chlordane | 0.000064 | U | 0.0011 | 0.000064 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| 4,4'-DDD | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| 4,4'-DDE | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| 4,4'-DDT | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Dieldrin | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endosulfan I | 0.00010 | U | 0.0011 | 0.00010 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endosulfan II | 0.000054 | U | 0.0011 | 0.000054 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endosulfan sulfate | 0.00017 | U | 0.0011 | 0.00017 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endrin | 0.000051 | U | 0.0011 | 0.000051 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endrin aldehyde | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Endrin ketone | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Heptachlor | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Heptachlor epoxide | 0.000066 | U | 0.0011 | 0.000066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Methoxychlor | 0.00019 | U | 0.0011 | 0.00019 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |
| Toxaphene | 0.011 | U | 0.066 | 0.011 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 17:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *87* | | *47 - 148* | *01/16/14 07:47* | *01/20/14 17:21* | *1* |
| *Tetrachloro-m-xylene* | *80* | | *65 - 134* | *01/16/14 07:47* | *01/20/14 17:21* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0029 | U | 0.011 | 0.0029 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |
| PCB-1221 | 0.0098 | U | 0.011 | 0.0098 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-04

**Date Collected: 01/13/14 14:00**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-10

**Matrix: Solid**
**Percent Solids: 76.0**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 | 0.010 | U | 0.011 | 0.010 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |
| PCB-1242 | 0.0066 | U | 0.011 | 0.0066 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |
| PCB-1248 | 0.0022 | U | 0.011 | 0.0022 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |
| PCB-1254 | 0.0037 | U | 0.011 | 0.0037 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |
| PCB-1260 | 0.0040 | U | 0.011 | 0.0040 | mg/Kg | ☼ | 01/16/14 07:47 | 01/20/14 14:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *68* | | *30 - 150* | *01/16/14 07:47* | *01/20/14 14:01* | *1* |
| *Tetrachloro-m-xylene* | *95* | | *43 - 142* | *01/16/14 07:47* | *01/20/14 14:01* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.014 | U | 0.26 | 0.014 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| 2,4-DB | 0.0091 | U | 0.019 | 0.0091 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| 2,4,5-T | 0.0044 | U | 0.052 | 0.0044 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| Silvex (2,4,5-TP) | 0.022 | U | 0.052 | 0.022 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| Dalapon | 0.092 | U | 1.6 | 0.092 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| Dicamba | 0.0016 | U | 0.078 | 0.0016 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| Dichlorprop | 0.0043 | U | 0.17 | 0.0043 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| Dinoseb | 0.0056 | U | 0.26 | 0.0056 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| MCPA | 1.1 | U | 65 | 1.1 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |
| MCPP | 0.52 | U | 65 | 0.52 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 21:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *84* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 21:43* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.28 | U | 0.71 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |
| **Arsenic** | **0.98** | | 0.71 | 0.57 | mg/Kg | ☼ | 01/16/14 08:27 | 01/27/14 12:43 | 1 |
| **Barium** | **8.9** | | 1.4 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |
| Cadmium | 0.14 | U | 0.71 | 0.14 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |
| **Chromium** | **4.2** | | 1.4 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |
| **Lead** | **1.5** | | 0.71 | 0.28 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |
| **Selenium** | **1.7** | | 1.4 | 0.57 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:49 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.016** | **I V** | 0.019 | 0.011 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:37 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 04-SS-01

**Date Collected: 01/12/14 15:30**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-11

**Matrix: Solid**
**Percent Solids: 67.3**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Acenaphthylene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Anthracene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Benzo[a]anthracene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Benzo[a]pyrene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Benzo[b]fluoranthene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Benzo[g,h,i]perylene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Benzo[k]fluoranthene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Chrysene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Dibenz(a,h)anthracene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Fluoranthene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Fluorene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Naphthalene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Phenanthrene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| Pyrene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| 1-Methylnaphthalene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |
| 2-Methylnaphthalene | 0.074 | U | 2.4 | 0.074 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 22:59 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 22:59* | *5* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 22:59* | *5* |
| *Terphenyl-d14 (Surr)* | *91* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 22:59* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.070 | U | 0.14 | 0.070 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *94* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 20:26* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Oil Range Organics (C28-C35)** | **220** | | 7.4 | 2.5 | mg/Kg | ☼ | 01/16/14 07:41 | 01/22/14 13:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *94* | | *30 - 118* | *01/16/14 07:41* | *01/22/14 13:15* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.27 | U | 0.68 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |
| **Arsenic** | **4.9** | | 0.68 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:46 | 1 |
| **Barium** | **40** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |
| **Cadmium** | **0.50** | **I** | 0.68 | 0.14 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |
| **Chromium** | **37** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |
| **Lead** | **41** | | 0.68 | 0.27 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |
| Selenium | 0.55 | U | 1.4 | 0.55 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:52 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

**Client Sample ID: 04-SS-01**
**Date Collected: 01/12/14 15:30**
**Date Received: 01/15/14 09:17**

**Lab Sample ID: 400-85394-11**
**Matrix: Solid**
**Percent Solids: 67.3**

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.028 | V | 0.023 | 0.014 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:38 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 04-SS-02

**Date Collected: 01/12/14 15:50**
**Date Received: 01/15/14 09:17**

## Lab Sample ID: 400-85394-12

**Matrix: Solid**
**Percent Solids: 82.6**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Acenaphthylene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Benzo[a]anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Benzo[a]pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| **Benzo[b]fluoranthene** | **0.070** | **I** | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Benzo[g,h,i]perylene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Benzo[k]fluoranthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Chrysene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Dibenz(a,h)anthracene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Fluoranthene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Fluorene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Naphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Phenanthrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| Pyrene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| 1-Methylnaphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |
| 2-Methylnaphthalene | 0.060 | U | 2.0 | 0.060 | mg/Kg | ☼ | 01/16/14 07:59 | 01/17/14 23:38 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *87* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 23:38* | *5* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 23:38* | *5* |
| *Terphenyl-d14 (Surr)* | *95* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 23:38* | *5* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.092** | **I** | 0.11 | 0.055 | mg/Kg | ☼ | 01/16/14 10:00 | 01/16/14 20:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *65 - 125* | *01/16/14 10:00* | *01/16/14 20:53* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Oil Range Organics (C28-C35)** | **86** | | 6.0 | 2.0 | mg/Kg | ☼ | 01/16/14 07:41 | 01/17/14 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *94* | | *30 - 118* | *01/16/14 07:41* | *01/17/14 16:48* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.23 | U | 0.58 | 0.23 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |
| **Arsenic** | **4.6** | | 0.58 | 0.46 | mg/Kg | ☼ | 01/16/14 08:27 | 01/23/14 13:49 | 1 |
| **Barium** | **34** | | 1.2 | 0.23 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |
| **Cadmium** | **0.40** | **I** | 0.58 | 0.12 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |
| **Chromium** | **27** | | 1.2 | 0.23 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |
| **Lead** | **16** | | 0.58 | 0.23 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |
| **Selenium** | **0.56** | **I** | 1.2 | 0.46 | mg/Kg | ☼ | 01/16/14 08:27 | 01/22/14 18:56 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

**Client Sample ID: 04-SS-02**
**Date Collected: 01/12/14 15:50**
**Date Received: 01/15/14 09:17**

**Lab Sample ID: 400-85394-12**
**Matrix: Solid**
**Percent Solids: 82.6**

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.031 | V | 0.018 | 0.011 | mg/Kg | ☼ | 01/16/14 09:57 | 01/20/14 15:40 | 1 |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1



## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| J1 | Estimated value; value may not be accurate. Surrogate recovery outside of criteria. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Indicates that the compound was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-01 — Lab Sample ID: 400-85394-1

**Date Collected: 01/11/14 12:30** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 77.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204819 | 01/17/14 11:57 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 14:53 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 14:59 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 14:25 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:09 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 17:55 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:02 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SS-02 — Lab Sample ID: 400-85394-2

**Date Collected: 01/11/14 12:45** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 80.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204819 | 01/17/14 12:30 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 15:23 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 15:09 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 14:50 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:16 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:12 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205874 | 01/27/14 12:30 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SS-03 — Lab Sample ID: 400-85394-3

**Date Collected: 01/11/14 13:45** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 74.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 204819 | 01/17/14 13:04 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-03 — Lab Sample ID: 400-85394-3

**Date Collected: 01/11/14 13:45** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 74.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 15:51 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 15:19 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 15:15 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:19 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:16 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:09 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SS-04 — Lab Sample ID: 400-85394-4

**Date Collected: 01/11/14 14:20** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 69.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204819 | 01/17/14 13:37 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 16:18 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 15:28 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 15:40 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:20 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 2 | 205442 | 01/22/14 18:19 | SLM | TAL PEN |
| Total/NA | Analysis | 6010C | | 5 | 205781 | 01/24/14 16:07 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SS-05 — Lab Sample ID: 400-85394-5

**Date Collected: 01/11/14 14:50** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 76.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 204819 | 01/17/14 14:11 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 16:46 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 15:38 | IDR | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SS-05 — Lab Sample ID: 400-85394-5

**Date Collected: 01/11/14 14:50** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 76.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 16:05 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:30 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:22 | SLM | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:25 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SS-06 — Lab Sample ID: 400-85394-6

**Date Collected: 01/11/14 15:10** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 68.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 204819 | 01/17/14 14:44 | KJA | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 18:08 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 15:58 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 16:55 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:31 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:25 | SLM | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:29 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SD-01 — Lab Sample ID: 400-85394-7

**Date Collected: 01/11/14 16:10** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 52.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204822 | 01/17/14 21:03 | AJR | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 18:35 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 16:08 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 17:20 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-01 — Lab Sample ID: 400-85394-7

**Date Collected: 01/11/14 16:10** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 52.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:33 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:38 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205874 | 01/27/14 12:33 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SD-02 — Lab Sample ID: 400-85394-8

**Date Collected: 01/13/14 10:15** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 82.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204822 | 01/17/14 21:42 | AJR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204991 | 01/20/14 19:03 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 204693 | 01/16/14 07:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 3 | 205696 | 01/28/14 11:07 | AJR | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 19:03 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 10 | 205151 | 01/20/14 18:24 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 10 | 205175 | 01/20/14 17:45 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205347 | 01/22/14 12:56 | IDR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 5 | 205585 | 01/23/14 20:55 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:34 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:42 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205874 | 01/27/14 12:36 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SD-03 — Lab Sample ID: 400-85394-9

**Date Collected: 01/13/14 10:25** — **Matrix: Solid**
**Date Received: 01/15/14 09:17** — **Percent Solids: 81.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204822 | 01/17/14 22:20 | AJR | TAL PEN |
| Total/NA | Prep | 3550B | | | 204693 | 01/16/14 07:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 3 | 205696 | 01/28/14 11:40 | AJR | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 01-SD-03

**Lab Sample ID: 400-85394-9**

**Date Collected: 01/13/14 10:25**
**Matrix: Solid**
**Date Received: 01/15/14 09:17**
**Percent Solids: 81.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 19:31 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 10 | 205151 | 01/20/14 17:52 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 18:10 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205347 | 01/22/14 13:05 | IDR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 2 | 205585 | 01/23/14 21:19 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:36 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:45 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205874 | 01/27/14 12:40 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 01-SD-04

**Lab Sample ID: 400-85394-10**

**Date Collected: 01/13/14 14:00**
**Matrix: Solid**
**Date Received: 01/15/14 09:17**
**Percent Solids: 76.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 204819 | 01/17/14 11:23 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 204693 | 01/16/14 07:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205696 | 01/28/14 12:13 | AJR | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 19:58 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 14:29 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205151 | 01/20/14 17:21 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 204698 | 01/16/14 07:47 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205175 | 01/20/14 14:01 | VC1 | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 21:43 | VC1 | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:37 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:49 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205874 | 01/27/14 12:43 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Client Sample ID: 04-SS-01

**Lab Sample ID: 400-85394-11**
**Date Collected: 01/12/14 15:30**
**Matrix: Solid**
**Date Received: 01/15/14 09:17**
**Percent Solids: 67.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204822 | 01/17/14 22:59 | AJR | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 20:26 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205347 | 01/22/14 13:15 | IDR | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:38 | JAP | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:52 | SLM | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:46 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

## Client Sample ID: 04-SS-02

**Lab Sample ID: 400-85394-12**
**Date Collected: 01/12/14 15:50**
**Matrix: Solid**
**Date Received: 01/15/14 09:17**
**Percent Solids: 82.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 204702 | 01/16/14 07:59 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 204822 | 01/17/14 23:38 | AJR | TAL PEN |
| Total/NA | Prep | 5035 | | | 204767 | 01/16/14 10:00 | GRK | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204737 | 01/16/14 20:53 | GRK | TAL PEN |
| Total/NA | Prep | 3550C | | | 204695 | 01/16/14 07:41 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 204896 | 01/17/14 16:48 | IDR | TAL PEN |
| Total/NA | Prep | 7471B | | | 204729 | 01/16/14 09:57 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205114 | 01/20/14 15:40 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 204661 | 01/16/14 08:27 | SLT | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 18:56 | SLM | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205601 | 01/23/14 13:49 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 204711 | 01/16/14 08:23 | VC2 | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## GC/MS Semi VOA

### Prep Batch: 204693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3550B | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3550B | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3550B | |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 3550B | |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 3550B | |
| LCS 400-204693/6-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-204693/7-A | Method Blank | Total/NA | Solid | 3550B | |

### Prep Batch: 204702

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 3550C | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 3550C | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 3550C | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 3550C | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 3550C | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 3550C | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 3550C | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3550C | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3550C | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 3550C | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 3550C | |
| LCS 400-204702/15-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-204702/16-A | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 204819

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 8270D | 204702 |
| LCS 400-204702/15-A | Lab Control Sample | Total/NA | Solid | 8270D | 204702 |
| MB 400-204702/16-A | Method Blank | Total/NA | Solid | 8270D | 204702 |

### Analysis Batch: 204822

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 8270D | 204702 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 8270D | 204702 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 204991

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8270D | 204702 |

### Analysis Batch: 205696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8141A | 204693 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8141A | 204693 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8141A | 204693 |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 8141A | 204693 |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 8141A | 204693 |
| LCS 400-204693/6-A | Lab Control Sample | Total/NA | Solid | 8141A | 204693 |
| MB 400-204693/7-A | Method Blank | Total/NA | Solid | 8141A | 204693 |

## GC VOA

### Analysis Batch: 204737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85390-A-3-B MS | Matrix Spike | Total/NA | Solid | 8015C | 204767 |
| 400-85390-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015C | 204767 |
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 8015C | 204767 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 8015C | 204767 |
| LCS 400-204767/2-A | Lab Control Sample | Total/NA | Solid | 8015C | 204767 |
| MB 400-204767/1-A | Method Blank | Total/NA | Solid | 8015C | 204767 |

### Prep Batch: 204767

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85390-A-3-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 400-85390-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 5035 | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 5035 | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 5035 | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 5035 | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 5035 | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 5035 | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 5035 | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 5035 | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 5035 | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 5035 | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 5035 | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 5035 | |
| LCS 400-204767/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## GC VOA (Continued)

### Prep Batch: 204767 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 400-204767/1-A | Method Blank | Total/NA | Solid | 5035 | |

## GC Semi VOA

### Prep Batch: 204695

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 3550C | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 3550C | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 3550C | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 3550C | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 3550C | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 3550C | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 3550C | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3550C | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3550C | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 3550C | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 3550C | |
| LCS 400-204695/15-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-204695/16-A | Method Blank | Total/NA | Solid | 3550B | |

### Prep Batch: 204698

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 3550C | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 3550C | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 3550C | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 3550C | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 3550C | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 3550C | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 3550C | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3550C | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3550C | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3550C | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3550C | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 3550C | |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 3550C | |
| LCS 400-204698/18-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| LCS 400-204698/19-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-204698/20-A | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 204896

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 8015C | 204695 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## GC Semi VOA (Continued)

### Analysis Batch: 204896 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 8015C | 204695 |
| LCS 400-204695/15-A | Lab Control Sample | Total/NA | Solid | 8015C | 204695 |
| MB 400-204695/16-A | Method Blank | Total/NA | Solid | 8015C | 204695 |

### Prep Batch: 205142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8151A | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8151A | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8151A | |
| 400-85591-B-6-B MS | Matrix Spike | Total/NA | Solid | 8151A | |
| 400-85591-B-6-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8151A | |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | |

### Analysis Batch: 205151

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8081B | 204698 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8081B | 204698 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8081B | 204698 |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 8081B | 204698 |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 8081B | 204698 |
| LCS 400-204698/19-A | Lab Control Sample | Total/NA | Solid | 8081B | 204698 |
| MB 400-204698/20-A | Method Blank | Total/NA | Solid | 8081B | 204698 |

### Analysis Batch: 205175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-10 MS | 01-SD-04 | Total/NA | Solid | 8082A | 204698 |
| 400-85394-10 MSD | 01-SD-04 | Total/NA | Solid | 8082A | 204698 |
| LCS 400-204698/18-A | Lab Control Sample | Total/NA | Solid | 8082A | 204698 |
| MB 400-204698/20-A | Method Blank | Total/NA | Solid | 8082A | 204698 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## GC Semi VOA (Continued)

### Analysis Batch: 205347

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8015C | 204695 |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 8015C | 204695 |

### Analysis Batch: 205583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-B-6-B MS | Matrix Spike | Total/NA | Solid | 8151A | 205142 |
| 400-85591-B-6-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8151A | 205142 |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | 205142 |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | 205142 |

### Analysis Batch: 205585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 8151A | 205142 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 8151A | 205142 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 8151A | 205142 |

## Metals

### Prep Batch: 204661

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 3050B | |
| 400-85394-1 MS | 01-SS-01 | Total/NA | Solid | 3050B | |
| 400-85394-1 MSD | 01-SS-01 | Total/NA | Solid | 3050B | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 3050B | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 3050B | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 3050B | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 3050B | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 3050B | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 3050B | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 3050B | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 3050B | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 3050B | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 3050B | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 3050B | |
| LCS 400-204661/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 400-204661/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Prep Batch: 204729

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 7471B | |
| 400-85394-1 MS | 01-SS-01 | Total/NA | Solid | 7471B | |
| 400-85394-1 MSD | 01-SS-01 | Total/NA | Solid | 7471B | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 7471B | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 7471B | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 7471B | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 7471B | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 7471B | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 7471B | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 7471B | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Metals (Continued)

### Prep Batch: 204729 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 7471B | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 7471B | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 7471B | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 7471B | |
| LCS 400-204729/15-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 400-204729/14-A | Method Blank | Total/NA | Solid | 7471B | |

### Analysis Batch: 205114

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-1 MS | 01-SS-01 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-1 MSD | 01-SS-01 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 7471B | 204729 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 7471B | 204729 |
| LCS 400-204729/15-A | Lab Control Sample | Total/NA | Solid | 7471B | 204729 |
| MB 400-204729/14-A | Method Blank | Total/NA | Solid | 7471B | 204729 |

### Analysis Batch: 205442

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-1 MS | 01-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-1 MSD | 01-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 6010C | 204661 |
| LCS 400-204661/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 204661 |
| MB 400-204661/1-A | Method Blank | Total/NA | Solid | 6010C | 204661 |

### Analysis Batch: 205601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | 6010C | 204661 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Metals (Continued)

### Analysis Batch: 205601 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | 6010C | 204661 |

### Analysis Batch: 205781

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | 6010C | 204661 |

### Analysis Batch: 205874

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | 6010C | 204661 |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | 6010C | 204661 |

## General Chemistry

### Analysis Batch: 204711

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85238-A-1 DU | Duplicate | Total/NA | Solid | Moisture | |
| 400-85394-1 | 01-SS-01 | Total/NA | Solid | Moisture | |
| 400-85394-2 | 01-SS-02 | Total/NA | Solid | Moisture | |
| 400-85394-3 | 01-SS-03 | Total/NA | Solid | Moisture | |
| 400-85394-4 | 01-SS-04 | Total/NA | Solid | Moisture | |
| 400-85394-5 | 01-SS-05 | Total/NA | Solid | Moisture | |
| 400-85394-6 | 01-SS-06 | Total/NA | Solid | Moisture | |
| 400-85394-7 | 01-SD-01 | Total/NA | Solid | Moisture | |
| 400-85394-8 | 01-SD-02 | Total/NA | Solid | Moisture | |
| 400-85394-9 | 01-SD-03 | Total/NA | Solid | Moisture | |
| 400-85394-10 | 01-SD-04 | Total/NA | Solid | Moisture | |
| 400-85394-11 | 04-SS-01 | Total/NA | Solid | Moisture | |
| 400-85394-12 | 04-SS-02 | Total/NA | Solid | Moisture | |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS)

**Lab Sample ID: MB 400-204693/7-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205696** — **Prep Batch: 204693**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Chlorpyrifos | 0.0075 | U | 0.033 | 0.0075 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Coumaphos | 0.013 | U | 0.33 | 0.013 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Diazinon | 0.015 | U | 0.066 | 0.015 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Dichlorvos | 0.0069 | U | 0.066 | 0.0069 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Disulfoton | 0.0062 | U | 0.066 | 0.0062 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Ethoprop | 0.011 | U | 0.033 | 0.011 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Fensulfothion | 0.011 | U | 0.33 | 0.011 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Fenthion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Methyl parathion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Mevinphos | 0.013 | U | 0.066 | 0.013 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Phorate | 0.010 | U | 0.033 | 0.010 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Ronnel | 0.0074 | U | 0.033 | 0.0074 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Stirophos | 0.018 | U | 0.033 | 0.018 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Terbutryn | 0.0083 | U | 0.033 | 0.0083 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Tokuthion | 0.021 | U | 0.033 | 0.021 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Dimethoate | 0.0082 | U | 0.066 | 0.0082 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| EPN | 0.0081 | U | 0.066 | 0.0081 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Ethyl Parathion | 0.0084 | U | 0.033 | 0.0084 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Malathion | 0.0064 | U | 0.033 | 0.0064 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Sulfotepp | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Famphur | 0.0085 | U | 0.066 | 0.0085 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |
| Thionazin | 0.0092 | U | 0.033 | 0.0092 | mg/Kg | | 01/16/14 07:39 | 01/28/14 10:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *79* | | *30 - 164* | *01/16/14 07:39* | *01/28/14 10:01* | *1* |

**Lab Sample ID: LCS 400-204693/6-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205696** — **Prep Batch: 204693**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bolstar | 0.0416 | 0.0403 | | mg/Kg | | 97 | 40 - 156 |
| Chlorpyrifos | 0.0416 | 0.0445 | | mg/Kg | | 107 | 22 - 130 |
| Coumaphos | 0.0416 | 0.0361 | I | mg/Kg | | 87 | 51 - 147 |
| Diazinon | 0.0416 | 0.0424 | I | mg/Kg | | 102 | 41 - 130 |
| Dichlorvos | 0.0416 | 0.0505 | I | mg/Kg | | 121 | 10 - 130 |
| Disulfoton | 0.0416 | 0.0393 | I | mg/Kg | | 94 | 10 - 134 |
| Ethoprop | 0.0416 | 0.0414 | | mg/Kg | | 100 | 30 - 130 |
| Fensulfothion | 0.0416 | 0.0397 | I | mg/Kg | | 96 | 43 - 145 |
| Fenthion | 0.0416 | 0.0424 | | mg/Kg | | 102 | 10 - 130 |
| Methyl parathion | 0.0416 | 0.0372 | | mg/Kg | | 90 | 36 - 149 |
| Mevinphos | 0.0416 | 0.0432 | I | mg/Kg | | 104 | 30 - 130 |
| Phorate | 0.0416 | 0.0399 | | mg/Kg | | 96 | 36 - 130 |
| Ronnel | 0.0416 | 0.0421 | | mg/Kg | | 101 | 30 - 130 |
| Stirophos | 0.0416 | 0.0376 | | mg/Kg | | 91 | 36 - 130 |
| Terbutryn | 0.166 | 0.167 | | mg/Kg | | 100 | 30 - 130 |
| Tokuthion | 0.0416 | 0.0393 | | mg/Kg | | 95 | 14 - 130 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: LCS 400-204693/6-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205696** — **Prep Batch: 204693**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dimethoate | 0.0416 | 0.0417 | I | mg/Kg | | 100 | 38 - 130 |
| EPN | 0.0416 | 0.0415 | I | mg/Kg | | 100 | 48 - 124 |
| Ethyl Parathion | 0.0416 | 0.0449 | | mg/Kg | | 108 | 24 - 151 |
| Malathion | 0.0416 | 0.0462 | | mg/Kg | | 111 | 10 - 141 |
| Sulfotepp | 0.0416 | 0.0411 | | mg/Kg | | 99 | 13 - 171 |
| Famphur | 0.0416 | 0.0389 | I | mg/Kg | | 94 | 10 - 130 |
| Thionazin | 0.0418 | 0.0496 | | mg/Kg | | 119 | 10 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *107* | | *30 - 164* |

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205696** — **Prep Batch: 204693**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0086 | U | 0.0543 | 0.0492 | | mg/Kg | ☼ | 91 | 40 - 156 |
| Chlorpyrifos | 0.0098 | U | 0.0543 | 0.0541 | | mg/Kg | ☼ | 100 | 22 - 130 |
| Coumaphos | 0.017 | U | 0.0543 | 0.0356 | I | mg/Kg | ☼ | 66 | 51 - 147 |
| Diazinon | 0.020 | U | 0.0543 | 0.0495 | I | mg/Kg | ☼ | 91 | 41 - 130 |
| Dichlorvos | 0.0090 | U | 0.0543 | 0.0395 | I | mg/Kg | ☼ | 73 | 10 - 130 |
| Disulfoton | 0.0081 | U | 0.0543 | 0.0412 | I | mg/Kg | ☼ | 76 | 10 - 134 |
| Ethoprop | 0.014 | U | 0.0543 | 0.0551 | | mg/Kg | ☼ | 101 | 30 - 130 |
| Fensulfothion | 0.014 | U | 0.0543 | 0.0372 | I | mg/Kg | ☼ | 69 | 43 - 145 |
| Fenthion | 0.0099 | U | 0.0543 | 0.0500 | | mg/Kg | ☼ | 92 | 10 - 128 |
| Methyl parathion | 0.0099 | U | 0.0543 | 0.0388 | I | mg/Kg | ☼ | 71 | 36 - 149 |
| Mevinphos | 0.017 | U | 0.0543 | 0.0405 | I | mg/Kg | ☼ | 75 | 30 - 130 |
| Phorate | 0.013 | U | 0.0543 | 0.0424 | I | mg/Kg | ☼ | 78 | 36 - 130 |
| Ronnel | 0.0097 | U | 0.0543 | 0.0447 | | mg/Kg | ☼ | 82 | 30 - 130 |
| Stirophos | 0.024 | U | 0.0543 | 0.0247 | I | mg/Kg | ☼ | 46 | 36 - 126 |
| Terbutryn | 0.011 | U | 0.217 | 0.199 | | mg/Kg | ☼ | 92 | 30 - 130 |
| Tokuthion | 0.027 | U | 0.0543 | 0.0413 | I | mg/Kg | ☼ | 76 | 14 - 130 |
| Dimethoate | 0.011 | U | 0.0543 | 0.0376 | I | mg/Kg | ☼ | 69 | 38 - 130 |
| EPN | 0.011 | U | 0.0543 | 0.0410 | I | mg/Kg | ☼ | 75 | 48 - 124 |
| Ethyl Parathion | 0.011 | U | 0.0543 | 0.0475 | | mg/Kg | ☼ | 88 | 24 - 151 |
| Malathion | 0.0084 | U | 0.0543 | 0.0464 | | mg/Kg | ☼ | 85 | 10 - 141 |
| Sulfotepp | 0.0086 | U | 0.0543 | 0.0477 | | mg/Kg | ☼ | 88 | 13 - 171 |
| Famphur | 0.011 | U | 0.0543 | 0.0291 | I | mg/Kg | ☼ | 54 | 10 - 130 |
| Thionazin | 0.012 | U | 0.0546 | 0.0486 | | mg/Kg | ☼ | 89 | 10 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *86* | | *30 - 164* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205696** — **Prep Batch: 204693**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0086 | U | 0.0545 | 0.0535 | | mg/Kg | ☼ | 98 | 40 - 156 | 8 | 40 |
| Chlorpyrifos | 0.0098 | U | 0.0545 | 0.0570 | | mg/Kg | ☼ | 104 | 22 - 130 | 5 | 40 |
| Coumaphos | 0.017 | U | 0.0545 | 0.0456 | I | mg/Kg | ☼ | 84 | 51 - 147 | 25 | 40 |
| Diazinon | 0.020 | U | 0.0545 | 0.0527 | I | mg/Kg | ☼ | 97 | 41 - 130 | 6 | 30 |
| Dichlorvos | 0.0090 | U | 0.0545 | 0.0585 | I | mg/Kg | ☼ | 107 | 10 - 130 | 39 | 40 |
| Disulfoton | 0.0081 | U | 0.0545 | 0.0444 | I | mg/Kg | ☼ | 81 | 10 - 134 | 8 | 93 |
| Ethoprop | 0.014 | U | 0.0545 | 0.0585 | | mg/Kg | ☼ | 107 | 30 - 130 | 6 | 40 |
| Fensulfothion | 0.014 | U | 0.0545 | 0.0424 | I | mg/Kg | ☼ | 78 | 43 - 145 | 13 | 40 |
| Fenthion | 0.0099 | U | 0.0545 | 0.0548 | | mg/Kg | ☼ | 100 | 10 - 128 | 9 | 60 |
| Methyl parathion | 0.0099 | U | 0.0545 | 0.0439 | | mg/Kg | ☼ | 81 | 36 - 149 | 12 | 40 |
| Mevinphos | 0.017 | U | 0.0545 | 0.0525 | I | mg/Kg | ☼ | 96 | 30 - 130 | 26 | 40 |
| Phorate | 0.013 | U | 0.0545 | 0.0464 | | mg/Kg | ☼ | 85 | 36 - 130 | 9 | 40 |
| Ronnel | 0.0097 | U | 0.0545 | 0.0514 | | mg/Kg | ☼ | 94 | 30 - 130 | 14 | 40 |
| Stirophos | 0.024 | U | 0.0545 | 0.0371 | I | mg/Kg | ☼ | 68 | 36 - 126 | 40 | 40 |
| Terbutryn | 0.011 | U | 0.218 | 0.210 | | mg/Kg | ☼ | 96 | 30 - 130 | 5 | 40 |
| Tokuthion | 0.027 | U | 0.0545 | 0.0539 | | mg/Kg | ☼ | 99 | 14 - 130 | 26 | 40 |
| Dimethoate | 0.011 | U | 0.0545 | 0.0470 | I | mg/Kg | ☼ | 86 | 38 - 130 | 22 | 40 |
| EPN | 0.011 | U | 0.0545 | 0.0455 | I | mg/Kg | ☼ | 83 | 48 - 124 | 11 | 30 |
| Ethyl Parathion | 0.011 | U | 0.0545 | 0.0511 | | mg/Kg | ☼ | 94 | 24 - 151 | 7 | 79 |
| Malathion | 0.0084 | U | 0.0545 | 0.0563 | | mg/Kg | ☼ | 103 | 10 - 141 | 19 | 40 |
| Sulfotepp | 0.0086 | U | 0.0545 | 0.0501 | | mg/Kg | ☼ | 92 | 13 - 171 | 5 | 65 |
| Famphur | 0.011 | U | 0.0545 | 0.0419 | I | mg/Kg | ☼ | 77 | 10 - 130 | 36 | 60 |
| Thionazin | 0.012 | U | 0.0548 | 0.0588 | | mg/Kg | ☼ | 107 | 10 - 130 | 19 | 60 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *85* | | *30 - 164* |

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

**Lab Sample ID: MB 400-204702/16-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Acenaphthylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Benzo[a]anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Benzo[a]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Benzo[b]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Benzo[g,h,i]perylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Benzo[k]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Chrysene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Dibenz(a,h)anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Fluorene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

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

**Lab Sample ID: MB 400-204702/16-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Phenanthrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| Pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| 1-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |
| 2-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/16/14 07:59 | 01/17/14 09:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *69* | | *44 - 108* | *01/16/14 07:59* | *01/17/14 09:09* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* | *01/16/14 07:59* | *01/17/14 09:09* | *1* |
| *Terphenyl-d14 (Surr)* | *67* | | *36 - 134* | *01/16/14 07:59* | *01/17/14 09:09* | *1* |

**Lab Sample ID: LCS 400-204702/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.41 | | mg/Kg | | 84 | 62 - 120 |
| Acenaphthylene | 1.67 | 1.37 | | mg/Kg | | 82 | 61 - 120 |
| Anthracene | 1.67 | 1.37 | | mg/Kg | | 82 | 68 - 120 |
| Benzo[a]anthracene | 1.67 | 1.45 | | mg/Kg | | 87 | 67 - 120 |
| Benzo[a]pyrene | 1.67 | 1.50 | | mg/Kg | | 90 | 64 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.44 | | mg/Kg | | 87 | 58 - 121 |
| Benzo[g,h,i]perylene | 1.67 | 1.18 | | mg/Kg | | 71 | 49 - 151 |
| Benzo[k]fluoranthene | 1.67 | 1.64 | | mg/Kg | | 98 | 61 - 123 |
| Chrysene | 1.67 | 1.43 | | mg/Kg | | 86 | 65 - 120 |
| Dibenz(a,h)anthracene | 1.67 | 1.23 | | mg/Kg | | 74 | 58 - 130 |
| Fluoranthene | 1.67 | 1.48 | | mg/Kg | | 89 | 67 - 123 |
| Fluorene | 1.67 | 1.44 | | mg/Kg | | 86 | 64 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.24 | | mg/Kg | | 74 | 55 - 133 |
| Naphthalene | 1.67 | 1.31 | | mg/Kg | | 79 | 59 - 120 |
| Phenanthrene | 1.67 | 1.43 | | mg/Kg | | 86 | 62 - 130 |
| Pyrene | 1.67 | 1.38 | | mg/Kg | | 83 | 57 - 127 |
| 1-Methylnaphthalene | 1.67 | 1.31 | | mg/Kg | | 78 | 66 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.32 | | mg/Kg | | 79 | 64 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *73* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *83* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *74* | | *36 - 134* |

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.18 | 1.85 | | mg/Kg | ☼ | 85 | 10 - 150 |
| Acenaphthylene | 0.013 | U | 2.18 | 1.80 | | mg/Kg | ☼ | 83 | 10 - 150 |
| Anthracene | 0.013 | U | 2.18 | 1.89 | | mg/Kg | ☼ | 86 | 10 - 150 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

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

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 0.013 | U | 2.18 | 2.04 | | mg/Kg | ☼ | 94 | 10 - 150 |
| Benzo[a]pyrene | 0.013 | U | 2.18 | 2.12 | | mg/Kg | ☼ | 97 | 10 - 150 |
| Benzo[b]fluoranthene | 0.013 | U | 2.18 | 2.10 | | mg/Kg | ☼ | 96 | 10 - 150 |
| Benzo[g,h,i]perylene | 0.013 | U | 2.18 | 1.66 | | mg/Kg | ☼ | 76 | 10 - 150 |
| Benzo[k]fluoranthene | 0.013 | U | 2.18 | 2.28 | | mg/Kg | ☼ | 104 | 10 - 150 |
| Chrysene | 0.013 | U | 2.18 | 2.00 | | mg/Kg | ☼ | 92 | 10 - 150 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.18 | 1.73 | | mg/Kg | ☼ | 79 | 32 - 111 |
| Fluoranthene | 0.013 | U | 2.18 | 2.11 | | mg/Kg | ☼ | 97 | 10 - 150 |
| Fluorene | 0.013 | U | 2.18 | 1.92 | | mg/Kg | ☼ | 88 | 10 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.013 | U | 2.18 | 1.72 | | mg/Kg | ☼ | 79 | 10 - 150 |
| Naphthalene | 0.013 | U | 2.18 | 1.71 | | mg/Kg | ☼ | 79 | 10 - 150 |
| Phenanthrene | 0.013 | U | 2.18 | 1.98 | | mg/Kg | ☼ | 91 | 10 - 150 |
| Pyrene | 0.013 | U | 2.18 | 1.89 | | mg/Kg | ☼ | 87 | 10 - 150 |
| 1-Methylnaphthalene | 0.013 | U | 2.18 | 1.71 | | mg/Kg | ☼ | 78 | 10 - 150 |
| 2-Methylnaphthalene | 0.013 | U | 2.18 | 1.71 | | mg/Kg | ☼ | 79 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *71* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *77* | | *36 - 134* |

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.17 | 1.60 | | mg/Kg | ☼ | 74 | 10 - 150 | 15 | 36 |
| Acenaphthylene | 0.013 | U | 2.17 | 1.57 | | mg/Kg | ☼ | 72 | 10 - 150 | 14 | 29 |
| Anthracene | 0.013 | U | 2.17 | 1.68 | | mg/Kg | ☼ | 78 | 10 - 150 | 12 | 30 |
| Benzo[a]anthracene | 0.013 | U | 2.17 | 1.78 | | mg/Kg | ☼ | 82 | 10 - 150 | 13 | 33 |
| Benzo[a]pyrene | 0.013 | U | 2.17 | 1.87 | | mg/Kg | ☼ | 87 | 10 - 150 | 12 | 30 |
| Benzo[b]fluoranthene | 0.013 | U | 2.17 | 1.82 | | mg/Kg | ☼ | 84 | 10 - 150 | 14 | 31 |
| Benzo[g,h,i]perylene | 0.013 | U | 2.17 | 1.42 | | mg/Kg | ☼ | 66 | 10 - 150 | 15 | 30 |
| Benzo[k]fluoranthene | 0.013 | U | 2.17 | 2.06 | | mg/Kg | ☼ | 95 | 10 - 150 | 10 | 29 |
| Chrysene | 0.013 | U | 2.17 | 1.77 | | mg/Kg | ☼ | 82 | 10 - 150 | 12 | 33 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.17 | 1.46 | | mg/Kg | ☼ | 67 | 32 - 111 | 17 | 30 |
| Fluoranthene | 0.013 | U | 2.17 | 1.76 | | mg/Kg | ☼ | 81 | 10 - 150 | 18 | 42 |
| Fluorene | 0.013 | U | 2.17 | 1.66 | | mg/Kg | ☼ | 77 | 10 - 150 | 15 | 36 |
| Indeno[1,2,3-cd]pyrene | 0.013 | U | 2.17 | 1.48 | | mg/Kg | ☼ | 69 | 10 - 150 | 15 | 31 |
| Naphthalene | 0.013 | U | 2.17 | 1.43 | | mg/Kg | ☼ | 66 | 10 - 150 | 18 | 33 |
| Phenanthrene | 0.013 | U | 2.17 | 1.75 | | mg/Kg | ☼ | 81 | 10 - 150 | 12 | 34 |
| Pyrene | 0.013 | U | 2.17 | 1.78 | | mg/Kg | ☼ | 82 | 10 - 150 | 7 | 45 |
| 1-Methylnaphthalene | 0.013 | U | 2.17 | 1.45 | | mg/Kg | ☼ | 67 | 10 - 150 | 17 | 29 |
| 2-Methylnaphthalene | 0.013 | U | 2.17 | 1.45 | | mg/Kg | ☼ | 67 | 10 - 150 | 17 | 32 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *62* | | *44 - 108* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

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

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204819** — **Prep Batch: 204702**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| Nitrobenzene-d5 (Surr) | 68 | | 27 - 114 |
| Terphenyl-d14 (Surr) | 71 | | 36 - 134 |

## Method: 8015C - GRO by 8015C

**Lab Sample ID: MB 400-204767/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204737** — **Prep Batch: 204767**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.050 | U | 0.10 | 0.050 | mg/Kg | | 01/16/14 10:00 | 01/16/14 11:55 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) | 100 | | 65 - 125 | 01/16/14 10:00 | 01/16/14 11:55 | 1 |

**Lab Sample ID: LCS 400-204767/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204737** — **Prep Batch: 204767**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1.00 | 1.03 | | mg/Kg | | 103 | 62 - 141 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) | 102 | | 65 - 125 |

**Lab Sample ID: 400-85390-A-3-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204737** — **Prep Batch: 204767**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.052 | U | 1.03 | 0.916 | | mg/Kg | ☼ | 89 | 10 - 150 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) | 103 | | 65 - 125 |

**Lab Sample ID: 400-85390-A-3-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204737** — **Prep Batch: 204767**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.052 | U | 1.05 | 0.779 | | mg/Kg | ☼ | 74 | 10 - 150 | 16 | 32 |

## Method: 8015C - GRO by 8015C (Continued)

**Lab Sample ID: 400-85390-A-3-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204737** — **Prep Batch: 204767**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene (fid) | 100 | | 65 - 125 |

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

**Lab Sample ID: MB 400-204695/16-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204896** — **Prep Batch: 204695**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (C28-C35) | 1.97 | I | 5.0 | 1.7 | mg/Kg | | 01/16/14 07:41 | 01/17/14 14:10 | 1 |
| Diesel Range Organics [C10-C28] | 2.69 | I | 5.0 | 1.7 | mg/Kg | | 01/16/14 07:41 | 01/17/14 14:10 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl (Surr) | 111 | | 30 - 118 | 01/16/14 07:41 | 01/17/14 14:10 | 1 |

**Lab Sample ID: LCS 400-204695/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204896** — **Prep Batch: 204695**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 334 | 320 | | mg/Kg | | 96 | 61 - 136 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 95 | | 30 - 118 |

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204896** — **Prep Batch: 204695**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.7 | I V | 435 | 394 | | mg/Kg | ☼ | 90 | 10 - 150 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 116 | | 30 - 118 |

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 204896** — **Prep Batch: 204695**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.7 | I V | 439 | 357 | | mg/Kg | ☼ | 81 | 10 - 150 | 10 | 40 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 89 | | 30 - 118 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 400-204698/20-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| alpha-BHC | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| beta-BHC | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| delta-BHC | 0.000035 | U | 0.00085 | 0.000035 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| gamma-BHC (Lindane) | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| alpha-Chlordane | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| gamma-Chlordane | 0.000048 | U | 0.00085 | 0.000048 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| 4,4'-DDD | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| 4,4'-DDE | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| 4,4'-DDT | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Dieldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endosulfan I | 0.000080 | U | 0.00085 | 0.000080 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endosulfan II | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endosulfan sulfate | 0.00013 | U | 0.00085 | 0.00013 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endrin | 0.000039 | U | 0.00085 | 0.000039 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endrin aldehyde | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Endrin ketone | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Heptachlor | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Heptachlor epoxide | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Methoxychlor | 0.00014 | U | 0.00085 | 0.00014 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |
| Toxaphene | 0.0085 | U | 0.050 | 0.0085 | mg/Kg | | 01/16/14 07:53 | 01/20/14 15:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *98* | | *47 - 148* | *01/16/14 07:53* | *01/20/14 15:14* | *1* |
| *Tetrachloro-m-xylene* | *98* | | *65 - 134* | *01/16/14 07:53* | *01/20/14 15:14* | *1* |

**Lab Sample ID: LCS 400-204698/19-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aldrin | 0.0166 | 0.0144 | | mg/Kg | | 87 | 58 - 150 |
| alpha-BHC | 0.0166 | 0.0152 | | mg/Kg | | 91 | 58 - 150 |
| beta-BHC | 0.0166 | 0.0148 | | mg/Kg | | 89 | 57 - 150 |
| delta-BHC | 0.0166 | 0.0161 | | mg/Kg | | 97 | 57 - 150 |
| gamma-BHC (Lindane) | 0.0166 | 0.0150 | | mg/Kg | | 90 | 51 - 150 |
| alpha-Chlordane | 0.0166 | 0.0138 | | mg/Kg | | 83 | 61 - 150 |
| gamma-Chlordane | 0.0166 | 0.0143 | | mg/Kg | | 86 | 60 - 150 |
| 4,4'-DDD | 0.0166 | 0.0131 | | mg/Kg | | 79 | 56 - 150 |
| 4,4'-DDE | 0.0166 | 0.0157 | | mg/Kg | | 94 | 64 - 150 |
| 4,4'-DDT | 0.0166 | 0.0166 | | mg/Kg | | 100 | 52 - 150 |
| Dieldrin | 0.0166 | 0.0144 | | mg/Kg | | 87 | 66 - 150 |
| Endosulfan I | 0.0166 | 0.0122 | | mg/Kg | | 73 | 63 - 150 |
| Endosulfan II | 0.0166 | 0.0131 | | mg/Kg | | 79 | 61 - 150 |
| Endosulfan sulfate | 0.0166 | 0.0156 | | mg/Kg | | 94 | 55 - 150 |
| Endrin | 0.0166 | 0.0136 | | mg/Kg | | 81 | 65 - 150 |
| Endrin aldehyde | 0.0166 | 0.0130 | | mg/Kg | | 78 | 39 - 150 |
| Endrin ketone | 0.0166 | 0.0145 | | mg/Kg | | 87 | 53 - 150 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 400-204698/19-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Heptachlor | 0.0166 | 0.0145 | | mg/Kg | | 87 | 58 - 150 |
| Heptachlor epoxide | 0.0166 | 0.0142 | | mg/Kg | | 86 | 64 - 150 |
| Methoxychlor | 0.0166 | 0.0162 | | mg/Kg | | 98 | 46 - 150 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *79* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *82* | | *65 - 134* |

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000066 | U | 0.0216 | 0.0137 | | mg/Kg | ☼ | 63 | 47 - 135 |
| alpha-BHC | 0.000054 | U | 0.0216 | 0.0142 | | mg/Kg | ☼ | 66 | 61 - 126 |
| beta-BHC | 0.000066 | U | 0.0216 | 0.0164 | | mg/Kg | ☼ | 76 | 53 - 129 |
| delta-BHC | 0.000046 | U | 0.0216 | 0.0174 | | mg/Kg | ☼ | 80 | 59 - 138 |
| gamma-BHC (Lindane) | 0.000066 | U | 0.0216 | 0.0150 | | mg/Kg | ☼ | 69 | 60 - 125 |
| alpha-Chlordane | 0.000066 | U | 0.0216 | 0.0150 | | mg/Kg | ☼ | 69 | 10 - 150 |
| gamma-Chlordane | 0.000064 | U | 0.0216 | 0.0153 | | mg/Kg | ☼ | 71 | 10 - 150 |
| 4,4'-DDD | 0.000066 | U | 0.0216 | 0.0155 | | mg/Kg | ☼ | 72 | 10 - 150 |
| 4,4'-DDE | 0.000066 | U | 0.0216 | 0.0170 | | mg/Kg | ☼ | 79 | 49 - 141 |
| 4,4'-DDT | 0.000066 | U | 0.0216 | 0.0189 | | mg/Kg | ☼ | 87 | 46 - 150 |
| Dieldrin | 0.000066 | U | 0.0216 | 0.0159 | | mg/Kg | ☼ | 74 | 10 - 150 |
| Endosulfan I | 0.00010 | U | 0.0216 | 0.0132 | | mg/Kg | ☼ | 61 | 10 - 150 |
| Endosulfan II | 0.000054 | U | 0.0216 | 0.0151 | | mg/Kg | ☼ | 70 | 54 - 135 |
| Endosulfan sulfate | 0.00017 | U | 0.0216 | 0.00893 | J3 | mg/Kg | ☼ | 41 | 54 - 144 |
| Endrin | 0.000051 | U | 0.0216 | 0.0151 | | mg/Kg | ☼ | 70 | 55 - 146 |
| Endrin aldehyde | 0.000066 | U | 0.0216 | 0.00601 | J3 | mg/Kg | ☼ | 28 | 50 - 150 |
| Endrin ketone | 0.000066 | U | 0.0216 | 0.0147 | | mg/Kg | ☼ | 68 | 54 - 142 |
| Heptachlor | 0.000066 | U | 0.0216 | 0.0138 | | mg/Kg | ☼ | 64 | 10 - 150 |
| Heptachlor epoxide | 0.000066 | U | 0.0216 | 0.0156 | | mg/Kg | ☼ | 72 | 62 - 134 |
| Methoxychlor | 0.00019 | U | 0.0216 | 0.0182 | | mg/Kg | ☼ | 85 | 50 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *69* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *53* | *J1* | *65 - 134* |

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000066 | U | 0.0218 | 0.0186 | | mg/Kg | ☼ | 85 | 47 - 135 | 30 | 66 |
| alpha-BHC | 0.000054 | U | 0.0218 | 0.0201 | J3 | mg/Kg | ☼ | 93 | 61 - 126 | 34 | 19 |
| beta-BHC | 0.000066 | U | 0.0218 | 0.0210 | | mg/Kg | ☼ | 96 | 53 - 129 | 25 | 30 |
| delta-BHC | 0.000046 | U | 0.0218 | 0.0234 | | mg/Kg | ☼ | 107 | 59 - 138 | 29 | 31 |
| gamma-BHC (Lindane) | 0.000066 | U | 0.0218 | 0.0204 | J3 | mg/Kg | ☼ | 94 | 60 - 125 | 31 | 25 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205151** — **Prep Batch: 204698**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-Chlordane | 0.000066 | U | 0.0218 | 0.0193 | | mg/Kg | ☼ | 89 | 10 - 150 | 25 | 42 |
| gamma-Chlordane | 0.000064 | U | 0.0218 | 0.0198 | | mg/Kg | ☼ | 91 | 10 - 150 | 26 | 46 |
| 4,4'-DDD | 0.000066 | U | 0.0218 | 0.0206 | | mg/Kg | ☼ | 95 | 10 - 150 | 28 | 106 |
| 4,4'-DDE | 0.000066 | U | 0.0218 | 0.0225 | | mg/Kg | ☼ | 103 | 49 - 141 | 28 | 55 |
| 4,4'-DDT | 0.000066 | U | 0.0218 | 0.0252 | | mg/Kg | ☼ | 116 | 46 - 150 | 29 | 39 |
| Dieldrin | 0.000066 | U | 0.0218 | 0.0205 | | mg/Kg | ☼ | 94 | 10 - 150 | 25 | 38 |
| Endosulfan I | 0.00010 | U | 0.0218 | 0.0170 | | mg/Kg | ☼ | 78 | 10 - 150 | 25 | 62 |
| Endosulfan II | 0.000054 | U | 0.0218 | 0.0196 | | mg/Kg | ☼ | 90 | 54 - 135 | 26 | 30 |
| Endosulfan sulfate | 0.00017 | U | 0.0218 | 0.0105 | J3 | mg/Kg | ☼ | 48 | 54 - 144 | 16 | 29 |
| Endrin | 0.000051 | U | 0.0218 | 0.0195 | | mg/Kg | ☼ | 90 | 55 - 146 | 26 | 30 |
| Endrin aldehyde | 0.000066 | U | 0.0218 | 0.00703 | J3 | mg/Kg | ☼ | 32 | 50 - 150 | 16 | 38 |
| Endrin ketone | 0.000066 | U | 0.0218 | 0.0186 | | mg/Kg | ☼ | 86 | 54 - 142 | 24 | 28 |
| Heptachlor | 0.000066 | U | 0.0218 | 0.0189 | | mg/Kg | ☼ | 87 | 10 - 150 | 31 | 33 |
| Heptachlor epoxide | 0.000066 | U | 0.0218 | 0.0197 | | mg/Kg | ☼ | 90 | 62 - 134 | 23 | 26 |
| Methoxychlor | 0.00019 | U | 0.0218 | 0.0240 | | mg/Kg | ☼ | 110 | 50 - 150 | 27 | 36 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *83* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *76* | | *65 - 134* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 400-204698/20-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205175** — **Prep Batch: 204698**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0022 | U | 0.0085 | 0.0022 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1221 | 0.0075 | U | 0.0085 | 0.0075 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1232 | 0.0080 | U | 0.0085 | 0.0080 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1242 | 0.0050 | U | 0.0085 | 0.0050 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1248 | 0.0016 | U | 0.0085 | 0.0016 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1254 | 0.0028 | U | 0.0085 | 0.0028 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |
| PCB-1260 | 0.0030 | U | 0.0085 | 0.0030 | mg/Kg | | 01/16/14 07:53 | 01/20/14 12:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *72* | | *30 - 150* | *01/16/14 07:53* | *01/20/14 12:21* | *1* |
| *Tetrachloro-m-xylene* | *102* | | *43 - 142* | *01/16/14 07:53* | *01/20/14 12:21* | *1* |

**Lab Sample ID: LCS 400-204698/18-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205175** — **Prep Batch: 204698**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.167 | 0.162 | | mg/Kg | | 97 | 54 - 126 |
| PCB-1260 | 0.167 | 0.147 | | mg/Kg | | 88 | 56 - 139 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 400-204698/18-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205175** — **Prep Batch: 204698**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 72 | | 30 - 150 |
| Tetrachloro-m-xylene | 100 | | 43 - 142 |

**Lab Sample ID: 400-85394-10 MS** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205175** — **Prep Batch: 204698**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0029 | U | 0.219 | 0.185 | | mg/Kg | ☼ | 84 | 15 - 150 |
| PCB-1260 | 0.0040 | U | 0.219 | 0.186 | | mg/Kg | ☼ | 85 | 21 - 150 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 61 | | 30 - 150 |
| Tetrachloro-m-xylene | 82 | | 43 - 142 |

**Lab Sample ID: 400-85394-10 MSD** — **Client Sample ID: 01-SD-04**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205175** — **Prep Batch: 204698**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0029 | U | 0.216 | 0.177 | | mg/Kg | ☼ | 82 | 15 - 150 | 4 | 42 |
| PCB-1260 | 0.0040 | U | 0.216 | 0.198 | | mg/Kg | ☼ | 92 | 21 - 150 | 7 | 29 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 68 | | 30 - 150 |
| Tetrachloro-m-xylene | 71 | | 43 - 142 |

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 400-205142/18-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.011 | U | 0.20 | 0.011 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4-DB | 0.0070 | U | 0.015 | 0.0070 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4,5-T | 0.0034 | U | 0.040 | 0.0034 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Silvex (2,4,5-TP) | 0.017 | U | 0.040 | 0.017 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dalapon | 0.071 | U | 1.2 | 0.071 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dicamba | 0.0012 | U | 0.060 | 0.0012 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dichlorprop | 0.0033 | U | 0.13 | 0.0033 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dinoseb | 0.0043 | U | 0.20 | 0.0043 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPA | 0.87 | U | 50 | 0.87 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPP | 0.40 | U | 50 | 0.40 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4-Dichlorophenylacetic acid | 69 | | 10 - 150 | 01/21/14 08:33 | 01/23/14 10:22 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: LCS 400-205142/17-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.166 | 0.127 | | mg/Kg | | 77 | 16 - 117 |
| 2,4,5-T | 0.0166 | 0.0139 | I | mg/Kg | | 84 | 40 - 105 |
| Silvex (2,4,5-TP) | 0.0166 | 0.017 | U | mg/Kg | | 91 | 34 - 97 |
| Dalapon | 0.416 | 0.343 | I | mg/Kg | | 82 | 10 - 115 |
| Dicamba | 0.0166 | 0.0224 | I | mg/Kg | | 135 | 10 - 141 |
| Dichlorprop | 0.166 | 0.156 | | mg/Kg | | 94 | 28 - 102 |
| Dinoseb | 0.0832 | 0.0488 | I | mg/Kg | | 59 | 10 - 71 |
| MCPA | 16.6 | 13.7 | I | mg/Kg | | 83 | 10 - 112 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *110* | | *10 - 150* |

**Lab Sample ID: 400-85591-B-6-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.187 | 0.0947 | | mg/Kg | ☼ | 51 | 10 - 88 |
| 2,4,5-T | 0.0038 | U | 0.0187 | 0.0115 | I | mg/Kg | ☼ | 62 | 10 - 107 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0187 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 |
| Dalapon | 0.080 | U | 0.467 | 0.258 | I | mg/Kg | ☼ | 55 | 10 - 126 |
| Dicamba | 0.0014 | U | 0.0187 | 0.0153 | I | mg/Kg | ☼ | 82 | 10 - 150 |
| Dichlorprop | 0.0037 | U | 0.187 | 0.138 | I | mg/Kg | ☼ | 74 | 10 - 81 |
| Dinoseb | 0.0048 | U | 0.0934 | 0.0529 | I | mg/Kg | ☼ | 57 | 10 - 64 |
| MCPA | 0.98 | U | 18.7 | 13.0 | I | mg/Kg | ☼ | 70 | 10 - 101 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *95* | | *10 - 150* |

**Lab Sample ID: 400-85591-B-6-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.188 | 0.0829 | | mg/Kg | ☼ | 44 | 10 - 88 | 13 | 109 |
| 2,4,5-T | 0.0038 | U | 0.0188 | 0.0108 | I | mg/Kg | ☼ | 57 | 10 - 107 | 7 | 121 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0188 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 | NC | 102 |
| Dalapon | 0.080 | U | 0.471 | 0.317 | I | mg/Kg | ☼ | 67 | 10 - 126 | 20 | 76 |
| Dicamba | 0.0014 | U | 0.0188 | 0.0163 | I | mg/Kg | ☼ | 87 | 10 - 150 | 7 | 159 |
| Dichlorprop | 0.0037 | U | 0.188 | 0.133 | I | mg/Kg | ☼ | 71 | 10 - 81 | 3 | 96 |
| Dinoseb | 0.0048 | U | 0.0942 | 0.0397 | I | mg/Kg | ☼ | 42 | 10 - 64 | 29 | 99 |
| MCPA | 0.98 | U | 18.8 | 16.3 | I | mg/Kg | ☼ | 86 | 10 - 101 | 23 | 134 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *80* | | *10 - 150* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-204661/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 204661**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.21 | U | 0.54 | 0.21 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Arsenic | 0.43 | U | 0.54 | 0.43 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Barium | 0.21 | U | 1.1 | 0.21 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Cadmium | 0.11 | U | 0.54 | 0.11 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Chromium | 0.21 | U | 1.1 | 0.21 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Lead | 0.21 | U | 0.54 | 0.21 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |
| Selenium | 0.43 | U | 1.1 | 0.43 | mg/Kg | | 01/16/14 08:27 | 01/22/14 17:39 | 1 |

**Lab Sample ID: LCS 400-204661/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 204661**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 44.3 | 40.6 | | mg/Kg | | 92 | 74 - 126 |
| Arsenic | 151 | 140 | | mg/Kg | | 93 | 81 - 120 |
| Barium | 262 | 251 | | mg/Kg | | 96 | 83 - 117 |
| Cadmium | 152 | 144 | | mg/Kg | | 95 | 82 - 118 |
| Chromium | 117 | 112 | | mg/Kg | | 96 | 79 - 121 |
| Lead | 254 | 256 | | mg/Kg | | 101 | 81 - 119 |
| Selenium | 162 | 144 | | mg/Kg | | 89 | 77 - 122 |

**Lab Sample ID: 400-85394-1 MS** — **Client Sample ID: 01-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 204661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.28 | | 71.3 | 66.1 | | mg/Kg | ☼ | 93 | 75 - 125 |
| Arsenic | 7.9 | | 143 | 132 | | mg/Kg | ☼ | 87 | 75 - 125 |
| Barium | 53 | | 143 | 207 | | mg/Kg | ☼ | 108 | 75 - 125 |
| Cadmium | 0.46 | | 71.3 | 65.8 | | mg/Kg | ☼ | 92 | 75 - 125 |
| Chromium | 32 | | 143 | 154 | | mg/Kg | ☼ | 86 | 75 - 125 |
| Lead | 19 | | 143 | 171 | | mg/Kg | ☼ | 107 | 75 - 125 |
| Selenium | 0.56 | | 143 | 125 | | mg/Kg | ☼ | 87 | 75 - 125 |

**Lab Sample ID: 400-85394-1 MSD** — **Client Sample ID: 01-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 204661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.28 | | 69.5 | 65.2 | | mg/Kg | ☼ | 94 | 75 - 125 | 1 | 20 |
| Arsenic | 7.9 | | 139 | 129 | | mg/Kg | ☼ | 87 | 75 - 125 | 2 | 20 |
| Barium | 53 | | 139 | 195 | | mg/Kg | ☼ | 102 | 75 - 125 | 6 | 20 |
| Cadmium | 0.46 | | 69.5 | 64.7 | | mg/Kg | ☼ | 92 | 75 - 125 | 2 | 20 |
| Chromium | 32 | | 139 | 158 | | mg/Kg | ☼ | 91 | 75 - 125 | 3 | 20 |
| Lead | 19 | | 139 | 157 | | mg/Kg | ☼ | 99 | 75 - 125 | 9 | 20 |
| Selenium | 0.56 | | 139 | 121 | | mg/Kg | ☼ | 87 | 75 - 125 | 3 | 20 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 400-204729/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205114** — **Prep Batch: 204729**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0235 | I | 0.035 | 0.021 | mg/Kg | | 01/16/14 09:57 | 01/20/14 15:06 | 1 |

**Lab Sample ID: LCS 400-204729/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205114** — **Prep Batch: 204729**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 5.76 | 6.43 | | mg/Kg | | 112 | 80 - 120 |

**Lab Sample ID: 400-85394-1 MS** — **Client Sample ID: 01-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205114** — **Prep Batch: 204729**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.028 | V | 0.179 | 0.243 | | mg/Kg | ☼ | 121 | 75 - 125 |

**Lab Sample ID: 400-85394-1 MSD** — **Client Sample ID: 01-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205114** — **Prep Batch: 204729**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.028 | V | 0.178 | 0.248 | | mg/Kg | ☼ | 124 | 75 - 125 | 2 | 20 |

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

8539

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.1 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

400-85394 COC

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_DRO (C10-C28) & ORO (C28-C40) | 8015 GRO (C6-C10) | 8270D - PAHs | 8082-PCBs | 6010C/7471A-RCRA 8 Metals | 8081 OC Pests | 8141 OP Pests | 8151A Herbicides | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | N | N | | | | | | | | | | |
| 01-SS-01 | 1/14/14 | 1230 ~~1345~~ | G | Solid | N | N | X | X | X | X | X | | | | | | | | | 2 | |
| 01-SS-02 | ↓ | 1245 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ↓ | |
| 01-SS-03 | ↓ | 1345 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ↓ | |
| 01-SS-04 | ↓ | 1420 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ↓ | |
| 01-SS-05 | ↓ | 1450 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ↓ | |
| 01-SS-06 | ↓ | 1510 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ↓ | |
| 01-SD-01 | ↓ | 1610 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | ✓ | |
| 01-SD-02 | 1/13/14 | 1015 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | X | X | X | | | | | | 3 | 0.3 C |
| 01-SD-03 | ↓ | 1025 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | ↓ | IRC |
| 01-SD-04 | ↓ | 1400 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | ↓ | |

**Possible Hazard Identification**
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fed Ex |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/14/14 0845 | Barksdale | [illegible] | 1-15-14 9:17 | |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.4 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_ORO (C28-C40) | 8015 - GRO (C6-C10) | 8270D - PAHs | 6010C/7470A - RCRA 8 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | N | | |
| 04 - SS-01 | 1/12/14 | 1530 | G | Solid | N | N | X | X | X | X | 2 | |
| 04 - SS-02 | 1/12/14 | 1550 | G | Solid | N | N | X | X | X | X | 2 | |
| | | | | | | | | | | | | 0.3°C IRC |

*Possible Hazard Identification*
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fed Ex

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/14/14 0845 | Barksdale | [illegible] | 1-16-14 9:17 | |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85394-1

**Login Number: 85394**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Ricketts, Erin**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.3°C IR6 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85394-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-15 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85520-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*1/31/2014 1:58:43 PM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Job ID: 400-85520-1

**Laboratory: TestAmerica Pensacola**

**Narrative**

**Job Narrative**
**400-85520-1**

**GC Semi VOA**
Method(s) 8015C: The method blank for batch 205023 contained C10-C28 results above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

**Metals**
Method(s) 7470A: The method blank for batch 205146 contained Hg above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

**Organic Prep**
Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 205117.

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8015C | GRO by 8015C | SW846 | TAL PEN |
| 8015C | Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | SW846 | TAL PEN |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7470A | Mercury (CVAA) | SW846 | TAL PEN |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Water | 01/15/14 18:00 | 01/17/14 09:05 |
| 400-85520-2 | 02-GW-01 | Water | 01/12/14 14:00 | 01/17/14 09:05 |
| 400-85520-3 | TRIP BLANK | Water | 01/12/14 00:00 | 01/17/14 09:05 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Client Sample ID: RINSATE BLANK

**Lab Sample ID: 400-85520-1**

**Date Collected: 01/15/14 18:00**
**Date Received: 01/17/14 09:05**

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.34 | U | 1.0 | 0.34 | ug/L | | | 01/19/14 14:22 | 1 |
| Ethylbenzene | 0.50 | U | 1.0 | 0.50 | ug/L | | | 01/19/14 14:22 | 1 |
| Toluene | 0.70 | U | 1.0 | 0.70 | ug/L | | | 01/19/14 14:22 | 1 |
| Xylenes, Total | 1.6 | U | 10 | 1.6 | ug/L | | | 01/19/14 14:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *104* | | *78 - 118* | | *01/19/14 14:22* | *1* |
| *Dibromofluoromethane* | *97* | | *81 - 121* | | *01/19/14 14:22* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *01/19/14 14:22* | *1* |

### Method: 8015C - GRO by 8015C

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 50 | U | 100 | 50 | ug/L | | | 01/28/14 13:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *106* | | *78 - 119* | | *01/28/14 13:28* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **72** | **I V** | 120 | 41 | ug/L | | 01/20/14 08:54 | 01/21/14 19:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *95* | | *49 - 134* | *01/20/14 08:54* | *01/21/14 19:23* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.000048 | U | 0.00050 | 0.000048 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1221 | 0.00022 | U | 0.00050 | 0.00022 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1232 | 0.00010 | U | 0.00050 | 0.00010 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1242 | 0.000034 | U | 0.00050 | 0.000034 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1248 | 0.000020 | U | 0.00050 | 0.000020 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1254 | 0.000057 | U | 0.00050 | 0.000057 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |
| PCB-1260 | 0.000034 | U | 0.00050 | 0.000034 | mg/L | | 01/20/14 16:39 | 01/22/14 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *42* | | *10 - 125* | *01/20/14 16:39* | *01/22/14 15:02* | *1* |
| *Tetrachloro-m-xylene* | *106* | | *46 - 150* | *01/20/14 16:39* | *01/22/14 15:02* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.0020 | U | 0.0050 | 0.0020 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Arsenic | 0.0040 | U | 0.0050 | 0.0040 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Barium | 0.0020 | U | 0.010 | 0.0020 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Cadmium | 0.0010 | U | 0.0050 | 0.0010 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Chromium | 0.0020 | U | 0.010 | 0.0020 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Lead | 0.0020 | U | 0.0050 | 0.0020 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |
| Selenium | 0.0040 | U | 0.010 | 0.0040 | mg/L | | 01/20/14 09:07 | 01/22/14 15:11 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.00012** | **I V** | 0.00020 | 0.000070 | mg/L | | 01/21/14 08:58 | 01/23/14 10:52 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Client Sample ID: 02-GW-01

**Date Collected: 01/12/14 14:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85520-2

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.64** | **I** | 1.0 | 0.34 | ug/L | | | 01/19/14 14:50 | 1 |
| **Ethylbenzene** | **49** | | 1.0 | 0.50 | ug/L | | | 01/19/14 14:50 | 1 |
| **Toluene** | **0.72** | **I** | 1.0 | 0.70 | ug/L | | | 01/19/14 14:50 | 1 |
| **Xylenes, Total** | **2.0** | **I** | 10 | 1.6 | ug/L | | | 01/19/14 14:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *78 - 118* | | *01/19/14 14:50* | *1* |
| *Dibromofluoromethane* | *97* | | *81 - 121* | | *01/19/14 14:50* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *01/19/14 14:50* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.91** | **I** | 10 | 0.16 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Acenaphthylene | 0.17 | U | 10 | 0.17 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Anthracene** | **0.29** | **I** | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Benzo[a]anthracene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Benzo[a]pyrene | 0.12 | U | 10 | 0.12 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Benzo[b]fluoranthene | 0.15 | U | 10 | 0.15 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Benzo[g,h,i]perylene | 0.23 | U | 10 | 0.23 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Benzo[k]fluoranthene | 0.16 | U | 10 | 0.16 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Chrysene | 0.19 | U | 10 | 0.19 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Dibenz(a,h)anthracene | 0.24 | U | 10 | 0.24 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Fluoranthene** | **0.68** | **I** | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Fluorene** | **6.0** | **I** | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.22 | U | 10 | 0.22 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Naphthalene** | **19** | | 10 | 0.17 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Phenanthrene** | **0.77** | **I** | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **Pyrene** | **0.48** | **I** | 10 | 0.21 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **1-Methylnaphthalene** | **13** | | 10 | 0.15 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |
| **2-Methylnaphthalene** | **18** | | 10 | 0.13 | ug/L | | 01/17/14 16:17 | 01/30/14 17:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *91* | | *34 - 113* | *01/17/14 16:17* | *01/30/14 17:50* | *1* |
| *Nitrobenzene-d5 (Surr)* | *64* | | *27 - 110* | *01/17/14 16:17* | *01/30/14 17:50* | *1* |
| *Terphenyl-d14 (Surr)* | *111* | | *53 - 125* | *01/17/14 16:17* | *01/30/14 17:50* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.0043** | **I** | 0.0050 | 0.0020 | mg/L | | 01/20/14 09:07 | 01/22/14 15:14 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Client Sample ID: TRIP BLANK

**Lab Sample ID: 400-85520-3**

**Date Collected: 01/12/14 00:00**

**Matrix: Water**

**Date Received: 01/17/14 09:05**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.34 | U | 1.0 | 0.34 | ug/L | | | 01/19/14 15:19 | 1 |
| Ethylbenzene | 0.50 | U | 1.0 | 0.50 | ug/L | | | 01/19/14 15:19 | 1 |
| Toluene | 0.70 | U | 1.0 | 0.70 | ug/L | | | 01/19/14 15:19 | 1 |
| Xylenes, Total | 1.6 | U | 10 | 1.6 | ug/L | | | 01/19/14 15:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *104* | | *78 - 118* | | *01/19/14 15:19* | *1* |
| *Dibromofluoromethane* | *97* | | *81 - 121* | | *01/19/14 15:19* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *01/19/14 15:19* | *1* |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1



## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Indicates that the compound was analyzed for but not detected. |
| L | Off-scale high. Actual value is known to be greater than the value given. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| U | Indicates that the compound was analyzed for but not detected. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Client Sample ID: RINSATE BLANK — Lab Sample ID: 400-85520-1

**Date Collected: 01/15/14 18:00** — **Matrix: Water**
**Date Received: 01/17/14 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 204948 | 01/19/14 14:22 | ARM | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205955 | 01/28/14 13:28 | MKA | TAL PEN |
| Total/NA | Prep | 3520C | | | 205023 | 01/20/14 08:54 | KH1 | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 19:23 | IDR | TAL PEN |
| Total/NA | Prep | 3520C | | | 205117 | 01/20/14 16:39 | KH1 | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205362 | 01/22/14 15:02 | VC1 | TAL PEN |
| Total/NA | Prep | 3010A | | | 205029 | 01/20/14 09:07 | KWN | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 15:11 | SLM | TAL PEN |
| Total/NA | Prep | 7470A | | | 205146 | 01/21/14 08:58 | JAP | TAL PEN |
| Total/NA | Analysis | 7470A | | 1 | 205517 | 01/23/14 10:52 | JAP | TAL PEN |

## Client Sample ID: 02-GW-01 — Lab Sample ID: 400-85520-2

**Date Collected: 01/12/14 14:00** — **Matrix: Water**
**Date Received: 01/17/14 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 204948 | 01/19/14 14:50 | ARM | TAL PEN |
| Total/NA | Prep | 3520C | | | 204923 | 01/17/14 16:17 | KH1 | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 206054 | 01/30/14 17:50 | BKM | TAL PEN |
| Total/NA | Prep | 3010A | | | 205029 | 01/20/14 09:07 | KWN | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205442 | 01/22/14 15:14 | SLM | TAL PEN |

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-85520-3

**Date Collected: 01/12/14 00:00** — **Matrix: Water**
**Date Received: 01/17/14 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 204948 | 01/19/14 15:19 | ARM | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## GC/MS VOA

### Analysis Batch: 204948

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 8260B | |
| 400-85520-2 | 02-GW-01 | Total/NA | Water | 8260B | |
| 400-85520-2 MS | 02-GW-01 | Total/NA | Water | 8260B | |
| 400-85520-2 MSD | 02-GW-01 | Total/NA | Water | 8260B | |
| 400-85520-3 | TRIP BLANK | Total/NA | Water | 8260B | |
| LCS 400-204948/1002 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 400-204948/4 | Method Blank | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 204923

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-2 | 02-GW-01 | Total/NA | Water | 3520C | |
| LCS 400-204923/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 400-204923/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 205825

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 400-204923/2-A | Lab Control Sample | Total/NA | Water | 8270D | 204923 |
| MB 400-204923/1-A | Method Blank | Total/NA | Water | 8270D | 204923 |

### Analysis Batch: 206054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-2 | 02-GW-01 | Total/NA | Water | 8270D | 204923 |

## GC VOA

### Analysis Batch: 205955

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85516-D-2 MS | Matrix Spike | Total/NA | Water | 8015C | |
| 400-85516-D-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8015C | |
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 8015C | |
| LCS 400-205955/1004 | Lab Control Sample | Total/NA | Water | 8015C | |
| MB 400-205955/5 | Method Blank | Total/NA | Water | 8015C | |

## GC Semi VOA

### Prep Batch: 205023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 3520C | |
| 640-46449-A-3-B MS | Matrix Spike | Total/NA | Water | 3520C | |
| 640-46449-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Water | 3520C | |
| LCS 400-205023/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 400-205023/1-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 205117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 3520C | |
| LCS 400-205117/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 400-205117/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## GC Semi VOA (Continued)

### Prep Batch: 205117 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 400-205117/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 205179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 8015C | 205023 |
| 640-46449-A-3-B MS | Matrix Spike | Total/NA | Water | 8015C | 205023 |
| 640-46449-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Water | 8015C | 205023 |
| LCS 400-205023/2-A | Lab Control Sample | Total/NA | Water | 8015C | 205023 |
| MB 400-205023/1-A | Method Blank | Total/NA | Water | 8015C | 205023 |

### Analysis Batch: 205362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 8082A | 205117 |
| LCS 400-205117/2-A | Lab Control Sample | Total/NA | Water | 8082A | 205117 |
| LCSD 400-205117/3-A | Lab Control Sample Dup | Total/NA | Water | 8082A | 205117 |
| MB 400-205117/1-A | Method Blank | Total/NA | Water | 8082A | 205117 |

## Metals

### Prep Batch: 205029

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 3010A | |
| 400-85520-2 | 02-GW-01 | Total/NA | Water | 3010A | |
| 400-85552-A-3-B MS | Matrix Spike | Total/NA | Water | 3010A | |
| 400-85552-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Water | 3010A | |
| LCS 400-205029/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 400-205029/1-A | Method Blank | Total/NA | Water | 3010A | |

### Prep Batch: 205146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85451-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | |
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 7470A | |
| LCS 400-205146/15-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 400-205146/14-A | Method Blank | Total/NA | Water | 7470A | |

### Analysis Batch: 205442

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 6010C | 205029 |
| 400-85520-2 | 02-GW-01 | Total/NA | Water | 6010C | 205029 |
| 400-85552-A-3-B MS | Matrix Spike | Total/NA | Water | 6010C | 205029 |
| 400-85552-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Water | 6010C | 205029 |
| LCS 400-205029/2-A | Lab Control Sample | Total/NA | Water | 6010C | 205029 |
| MB 400-205029/1-A | Method Blank | Total/NA | Water | 6010C | 205029 |

### Analysis Batch: 205517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85451-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | 205146 |
| 400-85520-1 | RINSATE BLANK | Total/NA | Water | 7470A | 205146 |
| LCS 400-205146/15-A | Lab Control Sample | Total/NA | Water | 7470A | 205146 |
| MB 400-205146/14-A | Method Blank | Total/NA | Water | 7470A | 205146 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

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

**Lab Sample ID: MB 400-204948/4** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 204948**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.34 | U | 1.0 | 0.34 | ug/L | | | 01/19/14 10:34 | 1 |
| Ethylbenzene | 0.50 | U | 1.0 | 0.50 | ug/L | | | 01/19/14 10:34 | 1 |
| Toluene | 0.70 | U | 1.0 | 0.70 | ug/L | | | 01/19/14 10:34 | 1 |
| Xylenes, Total | 1.6 | U | 10 | 1.6 | ug/L | | | 01/19/14 10:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *107* | | *78 - 118* | | *01/19/14 10:34* | *1* |
| *Dibromofluoromethane* | *96* | | *81 - 121* | | *01/19/14 10:34* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *01/19/14 10:34* | *1* |

**Lab Sample ID: LCS 400-204948/1002** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 204948**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 43.1 | | ug/L | | 86 | 79 - 120 |
| Ethylbenzene | 50.0 | 42.1 | | ug/L | | 84 | 80 - 120 |
| Toluene | 50.0 | 41.8 | | ug/L | | 84 | 80 - 120 |
| Xylenes, Total | 100 | 81.7 | | ug/L | | 82 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *78 - 118* |
| *Dibromofluoromethane* | *105* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: 400-85520-2 MS** — **Client Sample ID: 02-GW-01**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 204948**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.64 | I | 50.0 | 43.1 | | ug/L | | 85 | 10 - 150 |
| Ethylbenzene | 49 | | 50.0 | 81.1 | | ug/L | | 65 | 10 - 150 |
| Toluene | 0.72 | I | 50.0 | 40.3 | | ug/L | | 79 | 10 - 150 |
| Xylenes, Total | 2.0 | I | 100 | 81.2 | | ug/L | | 79 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *78 - 118* |
| *Dibromofluoromethane* | *106* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* |

**Lab Sample ID: 400-85520-2 MSD** — **Client Sample ID: 02-GW-01**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 204948**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.64 | I | 50.0 | 50.1 | | ug/L | | 99 | 10 - 150 | 15 | 19 |
| Ethylbenzene | 49 | | 50.0 | 97.6 | | ug/L | | 98 | 10 - 150 | 19 | 40 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

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

**Lab Sample ID: 400-85520-2 MSD** — **Client Sample ID: 02-GW-01**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 204948**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | 0.72 | I | 50.0 | 48.7 | | ug/L | | 96 | 10 - 150 | 19 | 26 |
| Xylenes, Total | 2.0 | I | 100 | 97.3 | | ug/L | | 95 | 10 - 150 | 18 | 41 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *78 - 118* |
| *Dibromofluoromethane* | *103* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* |

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

**Lab Sample ID: MB 400-204923/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205825** — **Prep Batch: 204923**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.16 | U | 10 | 0.16 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Acenaphthylene | 0.17 | U | 10 | 0.17 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Anthracene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Benzo[a]anthracene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Benzo[a]pyrene | 0.12 | U | 10 | 0.12 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Benzo[b]fluoranthene | 0.15 | U | 10 | 0.15 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Benzo[g,h,i]perylene | 0.23 | U | 10 | 0.23 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Benzo[k]fluoranthene | 0.16 | U | 10 | 0.16 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Chrysene | 0.19 | U | 10 | 0.19 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Dibenz(a,h)anthracene | 0.24 | U | 10 | 0.24 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Fluoranthene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Fluorene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.22 | U | 10 | 0.22 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Naphthalene | 0.17 | U | 10 | 0.17 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Phenanthrene | 0.18 | U | 10 | 0.18 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| Pyrene | 0.21 | U | 10 | 0.21 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| 1-Methylnaphthalene | 0.15 | U | 10 | 0.15 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |
| 2-Methylnaphthalene | 0.13 | U | 10 | 0.13 | ug/L | | 01/17/14 16:17 | 01/27/14 17:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *53* | | *34 - 113* | *01/17/14 16:17* | *01/27/14 17:36* | *1* |
| *Nitrobenzene-d5 (Surr)* | *42* | | *27 - 110* | *01/17/14 16:17* | *01/27/14 17:36* | *1* |
| *Terphenyl-d14 (Surr)* | *69* | | *53 - 125* | *01/17/14 16:17* | *01/27/14 17:36* | *1* |

**Lab Sample ID: LCS 400-204923/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205825** — **Prep Batch: 204923**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 50.0 | 38.7 | | ug/L | | 77 | 57 - 125 |
| Acenaphthylene | 50.0 | 36.8 | | ug/L | | 74 | 59 - 125 |
| Anthracene | 50.0 | 43.1 | L | ug/L | | 86 | 65 - 128 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

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

**Lab Sample ID: LCS 400-204923/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205825** — **Prep Batch: 204923**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 50.0 | 39.3 | | ug/L | | 79 | 63 - 126 |
| Benzo[a]pyrene | 50.0 | 40.1 | L | ug/L | | 80 | 61 - 125 |
| Benzo[b]fluoranthene | 50.0 | 42.5 | L | ug/L | | 85 | 49 - 140 |
| Benzo[g,h,i]perylene | 50.0 | 44.6 | L | ug/L | | 89 | 51 - 149 |
| Benzo[k]fluoranthene | 50.0 | 36.7 | L | ug/L | | 73 | 56 - 138 |
| Chrysene | 50.0 | 46.3 | L | ug/L | | 93 | 60 - 126 |
| Dibenz(a,h)anthracene | 50.0 | 42.7 | L | ug/L | | 85 | 57 - 133 |
| Fluoranthene | 50.0 | 51.3 | L | ug/L | | 103 | 66 - 131 |
| Fluorene | 50.0 | 39.0 | | ug/L | | 78 | 60 - 132 |
| Indeno[1,2,3-cd]pyrene | 50.0 | 44.2 | L | ug/L | | 88 | 55 - 135 |
| Naphthalene | 50.0 | 29.6 | | ug/L | | 59 | 55 - 125 |
| Phenanthrene | 50.0 | 43.2 | L | ug/L | | 86 | 64 - 133 |
| Pyrene | 50.0 | 39.7 | | ug/L | | 79 | 55 - 142 |
| 1-Methylnaphthalene | 50.0 | 39.8 | | ug/L | | 80 | 59 - 120 |
| 2-Methylnaphthalene | 50.0 | 40.2 | L | ug/L | | 80 | 58 - 123 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *76* | | *34 - 113* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *27 - 110* |
| *Terphenyl-d14 (Surr)* | *80* | | *53 - 125* |

## Method: 8015C - GRO by 8015C

**Lab Sample ID: MB 400-205955/5** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205955**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 50 | U | 100 | 50 | ug/L | | | 01/28/14 12:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *109* | | *78 - 119* | | *01/28/14 12:56* | *1* |

**Lab Sample ID: LCS 400-205955/1004** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205955**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1000 | 1100 | | ug/L | | 110 | 85 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *107* | | *78 - 119* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Method: 8015C - GRO by 8015C (Continued)

**Lab Sample ID: 400-85516-D-2 MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205955**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 210 | | 1000 | 1450 | | ug/L | | 124 | 35 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *108* | | *78 - 119* |

**Lab Sample ID: 400-85516-D-2 MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205955**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 210 | | 1000 | 1440 | | ug/L | | 123 | 35 - 150 | 1 | 15 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *109* | | *78 - 119* |

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

**Lab Sample ID: MB 400-205023/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205023**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 73.8 | I | 130 | 43 | ug/L | | 01/20/14 08:54 | 01/21/14 12:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *100* | | *49 - 134* | *01/20/14 08:54* | *01/21/14 12:31* | *1* |

**Lab Sample ID: LCS 400-205023/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205023**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 10100 | 10300 | | ug/L | | 102 | 63 - 138 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl (Surr)* | *100* | | *49 - 134* |

**Lab Sample ID: 640-46449-A-3-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205023**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 99 | I V | 9590 | 8910 | | ug/L | | 92 | 10 - 150 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

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

**Lab Sample ID: 640-46449-A-3-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205023**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 97 | | 49 - 134 |

**Lab Sample ID: 640-46449-A-3-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205023**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 99 | I V | 9590 | 9460 | | ug/L | | 98 | 10 - 150 | 6 | 25 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 115 | | 49 - 134 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 400-205117/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205362** — **Prep Batch: 205117**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.000048 | U | 0.00050 | 0.000048 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1221 | 0.00022 | U | 0.00050 | 0.00022 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1232 | 0.00010 | U | 0.00050 | 0.00010 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1242 | 0.000034 | U | 0.00050 | 0.000034 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1248 | 0.000020 | U | 0.00050 | 0.000020 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1254 | 0.000057 | U | 0.00050 | 0.000057 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| PCB-1260 | 0.000034 | U | 0.00050 | 0.000034 | mg/L | | 01/20/14 16:39 | 01/22/14 11:16 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 54 | | 10 - 125 | 01/20/14 16:39 | 01/22/14 11:16 | 1 |
| Tetrachloro-m-xylene | 106 | | 46 - 150 | 01/20/14 16:39 | 01/22/14 11:16 | 1 |

**Lab Sample ID: LCS 400-205117/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205362** — **Prep Batch: 205117**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.00500 | 0.00519 | | mg/L | | 104 | 54 - 126 |
| PCB-1260 | 0.00500 | 0.00514 | | mg/L | | 103 | 56 - 139 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 65 | | 10 - 125 |
| Tetrachloro-m-xylene | 107 | | 46 - 150 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 400-205117/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205362** — **Prep Batch: 205117**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.00500 | 0.00554 | | mg/L | | 111 | 54 - 126 | 6 | 40 |
| PCB-1260 | 0.00500 | 0.00501 | | mg/L | | 100 | 56 - 139 | 3 | 40 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *60* | | *10 - 125* |
| *Tetrachloro-m-xylene* | *108* | | *46 - 150* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-205029/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 205029**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.0020 | U | 0.0050 | 0.0020 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Arsenic | 0.0040 | U | 0.0050 | 0.0040 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Barium | 0.0020 | U | 0.010 | 0.0020 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Cadmium | 0.0010 | U | 0.0050 | 0.0010 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Chromium | 0.0020 | U | 0.010 | 0.0020 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Lead | 0.0020 | U | 0.0050 | 0.0020 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |
| Selenium | 0.0040 | U | 0.010 | 0.0040 | mg/L | | 01/20/14 09:05 | 01/22/14 13:35 | 1 |

**Lab Sample ID: LCS 400-205029/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 205029**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 0.500 | 0.487 | | mg/L | | 97 | 80 - 120 |
| Arsenic | 1.00 | 1.01 | | mg/L | | 101 | 80 - 120 |
| Barium | 1.00 | 1.05 | | mg/L | | 105 | 80 - 120 |
| Cadmium | 0.500 | 0.504 | | mg/L | | 101 | 80 - 120 |
| Chromium | 1.00 | 1.05 | | mg/L | | 105 | 80 - 120 |
| Lead | 1.00 | 1.03 | | mg/L | | 103 | 80 - 120 |
| Selenium | 1.00 | 0.979 | | mg/L | | 98 | 80 - 120 |

**Lab Sample ID: 400-85552-A-3-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 205029**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.0020 | U | 0.500 | 0.481 | | mg/L | | 96 | 75 - 125 |
| Arsenic | 0.0040 | U | 1.00 | 1.00 | | mg/L | | 100 | 75 - 125 |
| Barium | 0.023 | | 1.00 | 1.06 | | mg/L | | 104 | 75 - 125 |
| Cadmium | 0.0010 | U | 0.500 | 0.501 | | mg/L | | 100 | 75 - 125 |
| Chromium | 0.0037 | I | 1.00 | 1.05 | | mg/L | | 104 | 75 - 125 |
| Lead | 0.0033 | I | 1.00 | 1.02 | | mg/L | | 101 | 75 - 125 |
| Selenium | 0.0040 | U | 1.00 | 0.965 | | mg/L | | 96 | 75 - 125 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 400-85552-A-3-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205442** — **Prep Batch: 205029**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.0020 | U | 0.500 | 0.488 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Arsenic | 0.0040 | U | 1.00 | 1.01 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Barium | 0.023 | | 1.00 | 1.07 | | mg/L | | 105 | 75 - 125 | 1 | 20 |
| Cadmium | 0.0010 | U | 0.500 | 0.507 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Chromium | 0.0037 | I | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 | 1 | 20 |
| Lead | 0.0033 | I | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Selenium | 0.0040 | U | 1.00 | 0.978 | | mg/L | | 98 | 75 - 125 | 1 | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 400-205146/14-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205517** — **Prep Batch: 205146**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000740 | I | 0.00020 | 0.000070 | mg/L | | 01/21/14 08:58 | 01/23/14 12:05 | 1 |

**Lab Sample ID: LCS 400-205146/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205517** — **Prep Batch: 205146**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00100 | 0.000864 | | mg/L | | 86 | 80 - 120 |

**Lab Sample ID: 400-85451-A-1-D MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 205517** — **Prep Batch: 205146**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000076 | | 0.00200 | 0.00172 | | mg/L | | 82 | 75 - 125 | 1 | 20 |

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

400-85520

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Client Information** 400-85520 COC

Client Contact: Mr. John Barksdale
Company: Barksdale & Associates
Address: 105 South G Street
City: Pensacola
State, Zip: FL, 32502
Phone: 850-291-4704(Tel)
Email: john@barksdaleandassociates.com
Project Name: VIIS Caneel Bay Resort
Site:

Sampler: John Barksdale
Phone:
Lab PM: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com
Carrier Tracking No(s):
COC No: 400-31086-17742.8
Page:
Job #:

Due Date Requested:
TAT Requested (days): 2 weeks
PO #: Purchase Order not required
WO #:
Project #: 40000008
SSOW#:

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_DRO (C10-C28) | 8015 - GRO (C6-C10) | 8260B - BTEX | 8082 - PCBs | 6010C/7470A - RCRA 8 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | S | A | A | N | D | | |
| RINSATE BLANK | 1/15/14 | 1800 | G | Water | N | N | X | X | X | X | X | 9 | |

**Possible Hazard Identification**
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/16/14 0845 | PAA | [illegible] | 01/17/14 0905 | |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: IR#12=2.0°C

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

400-65520

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.2 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260B - BTEX | 8270D - PAHs | 6010C-Lead | | | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | D | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| ~~DUPLICATE~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | | |
| 02-GW-01 | 1/12/14 | 1400 | G | Water | N | N | X | X | X | | | | | | | | | | 5 | |
| Trip Blank | | | | Water | N | N | X | | | | | | | | | | | | 2 | |

Preservation Codes:

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | |
|---|---|---|---|---|---|
| Relinquished by: John Barksdale | Date/Time: 1/16/14 0845 | Company: BAA | Received by: [illegible] | Date/Time: 01/16/14 0905 | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR#2 = 2.0°C

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85520-1

**Login Number: 85520**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Chea, Vandy**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.0°C IR #2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85520-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-15 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85521-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*1/23/2014 5:16:20 PM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Job ID: 400-85521-1

### Laboratory: TestAmerica Pensacola

**Narrative**

**Job Narrative**
**400-85521-1**

**GC Semi VOA**
Method(s) 8015C: The method blank for batch 205008 contained C10-C28 and C28-C35 results above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

**Metals**
Method(s) 6010C: Spike compounds were inadvertently omitted during the digestion process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for batch 204983 The associated laboratory control sample (LCS) and post-digestion spike (PDS) met acceptance criteria.

Method(s) 6010C: The method blank for batch 400-204983 contained selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8015C | Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7471B | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846 | TAL PEN |
| Moisture | Percent Moisture | EPA | TAL PEN |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Solid | 01/14/14 11:15 | 01/17/14 09:05 |
| 400-85521-2 | 05-SS-02 | Solid | 01/14/14 11:20 | 01/17/14 09:05 |
| 400-85521-3 | 05-SS-03 | Solid | 01/14/14 12:45 | 01/17/14 09:05 |
| 400-85521-4 | 05-SS-04 | Solid | 01/14/14 12:55 | 01/17/14 09:05 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-01

**Date Collected: 01/14/14 11:15**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85521-1

**Matrix: Solid**
**Percent Solids: 75.0**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Acenaphthylene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Anthracene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Benzo[a]anthracene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Benzo[a]pyrene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Benzo[b]fluoranthene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Benzo[g,h,i]perylene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Benzo[k]fluoranthene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Chrysene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Dibenz(a,h)anthracene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Fluoranthene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Fluorene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Naphthalene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Phenanthrene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| Pyrene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| 1-Methylnaphthalene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |
| 2-Methylnaphthalene | 0.067 | U | 2.2 | 0.067 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:06 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *68* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 16:06* | *5* |
| *Nitrobenzene-d5 (Surr)* | *69* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 16:06* | *5* |
| *Terphenyl-d14 (Surr)* | *78* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 16:06* | *5* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **310** | | 6.6 | 2.2 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:03 | 1 |
| **Oil Range Organics (C28-C35)** | **93** | | 6.6 | 2.2 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *72* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 20:03* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Silver** | **3.5** | | 0.62 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Arsenic** | **30** | | 0.62 | 0.50 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Barium** | **88** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Cadmium** | **7.3** | | 0.62 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Chromium** | **90** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Lead** | **180** | | 0.62 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |
| **Selenium** | **1.1** | **I V** | 1.2 | 0.50 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:19 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.083** | | 0.021 | 0.013 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:36 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-02

**Date Collected: 01/14/14 11:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85521-2

**Matrix: Solid**
**Percent Solids: 72.9**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Acenaphthylene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Anthracene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Benzo[a]anthracene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Benzo[a]pyrene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Benzo[b]fluoranthene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Benzo[g,h,i]perylene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Benzo[k]fluoranthene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Chrysene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Dibenz(a,h)anthracene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Fluoranthene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Fluorene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Naphthalene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| Phenanthrene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| **Pyrene** | **0.083** | **I** | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| 1-Methylnaphthalene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |
| 2-Methylnaphthalene | 0.068 | U | 2.3 | 0.068 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 16:39 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *68* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 16:39* | *5* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 16:39* | *5* |
| *Terphenyl-d14 (Surr)* | *70* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 16:39* | *5* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **620** | | 6.8 | 2.3 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:44 | 1 |
| **Oil Range Organics (C28-C35)** | **590** | | 6.8 | 2.3 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *79* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 20:44* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Silver** | **1.1** | | 0.66 | 0.26 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| **Arsenic** | **35** | | 0.66 | 0.53 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| **Barium** | **38** | | 1.3 | 0.26 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| **Cadmium** | **4.5** | | 0.66 | 0.13 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| **Chromium** | **68** | | 1.3 | 0.26 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| **Lead** | **100** | | 0.66 | 0.26 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |
| Selenium | 0.53 | U | 1.3 | 0.53 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:22 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.34** | | 0.019 | 0.012 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:03 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-03

**Date Collected: 01/14/14 12:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85521-3

**Matrix: Solid**
**Percent Solids: 77.2**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Acenaphthylene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Benzo[a]anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Benzo[a]pyrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Benzo[b]fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Benzo[g,h,i]perylene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Benzo[k]fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Chrysene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Dibenz(a,h)anthracene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Fluoranthene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Fluorene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Naphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Phenanthrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| Pyrene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| 1-Methylnaphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |
| 2-Methylnaphthalene | 0.064 | U | 2.1 | 0.064 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:13 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *65* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 17:13* | *5* |
| *Nitrobenzene-d5 (Surr)* | *71* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 17:13* | *5* |
| *Terphenyl-d14 (Surr)* | *75* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 17:13* | *5* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **98** | | 6.5 | 2.2 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:54 | 1 |
| **Oil Range Organics (C28-C35)** | **79** | | 6.5 | 2.2 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *103* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 20:54* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Silver** | **0.45** | **I** | 0.60 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| **Arsenic** | **49** | | 0.60 | 0.48 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| **Barium** | **67** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| **Cadmium** | **4.4** | | 0.60 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| **Chromium** | **60** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| **Lead** | **83** | | 0.60 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |
| Selenium | 0.48 | U | 1.2 | 0.48 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:25 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.026** | | 0.020 | 0.012 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:04 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-04

**Date Collected: 01/14/14 12:55**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85521-4

**Matrix: Solid**
**Percent Solids: 80.3**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Acenaphthylene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Anthracene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Benzo[a]anthracene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Benzo[a]pyrene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Benzo[b]fluoranthene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Benzo[g,h,i]perylene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Benzo[k]fluoranthene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Chrysene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Dibenz(a,h)anthracene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Fluoranthene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Fluorene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Naphthalene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Phenanthrene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| Pyrene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| 1-Methylnaphthalene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |
| 2-Methylnaphthalene | 0.062 | U | 2.0 | 0.062 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 17:46 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *64* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 17:46* | *5* |
| *Nitrobenzene-d5 (Surr)* | *68* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 17:46* | *5* |
| *Terphenyl-d14 (Surr)* | *73* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 17:46* | *5* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **480** | | 6.2 | 2.1 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 21:04 | 1 |
| **Oil Range Organics (C28-C35)** | **110** | | 6.2 | 2.1 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 21:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *82* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 21:04* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Silver** | **0.38** | **I** | 0.61 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| **Arsenic** | **57** | | 0.61 | 0.49 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| **Barium** | **81** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| **Cadmium** | **1.8** | | 0.61 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| **Chromium** | **37** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| **Lead** | **59** | | 0.61 | 0.25 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |
| Selenium | 0.49 | U | 1.2 | 0.49 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:29 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.022** | | 0.017 | 0.010 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:06 | 1 |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1



## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| U | Indicates that the compound was analyzed for but not detected. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-01 — Lab Sample ID: 400-85521-1

**Date Collected: 01/14/14 11:15** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 75.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205079 | 01/21/14 16:06 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 20:03 | IDR | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:19 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:36 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

## Client Sample ID: 05-SS-02 — Lab Sample ID: 400-85521-2

**Date Collected: 01/14/14 11:20** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 72.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205079 | 01/21/14 16:39 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 20:44 | IDR | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:22 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:03 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

## Client Sample ID: 05-SS-03 — Lab Sample ID: 400-85521-3

**Date Collected: 01/14/14 12:45** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 77.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205079 | 01/21/14 17:13 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 20:54 | IDR | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:25 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:04 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Client Sample ID: 05-SS-04

**Date Collected: 01/14/14 12:55**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85521-4

**Matrix: Solid**
**Percent Solids: 80.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205079 | 01/21/14 17:46 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 21:04 | IDR | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:29 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:06 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## GC/MS Semi VOA

### Prep Batch: 205024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 3550C | |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 3550C | |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 3550C | |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 3550C | |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 205076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 8270D | 205024 |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 8270D | 205024 |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 8270D | 205024 |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 8270D | 205024 |

### Analysis Batch: 205079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 8270D | 205024 |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 8270D | 205024 |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 8270D | 205024 |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 8270D | 205024 |

## GC Semi VOA

### Prep Batch: 205008

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 3550C | |
| 400-85521-1 MS | 05-SS-01 | Total/NA | Solid | 3550C | |
| 400-85521-1 MSD | 05-SS-01 | Total/NA | Solid | 3550C | |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 3550C | |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 3550C | |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 3550C | |
| LCS 400-205008/17-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205008/18-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 205179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 8015C | 205008 |
| 400-85521-1 MS | 05-SS-01 | Total/NA | Solid | 8015C | 205008 |
| 400-85521-1 MSD | 05-SS-01 | Total/NA | Solid | 8015C | 205008 |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 8015C | 205008 |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 8015C | 205008 |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 8015C | 205008 |
| LCS 400-205008/17-A | Lab Control Sample | Total/NA | Solid | 8015C | 205008 |
| MB 400-205008/18-A | Method Blank | Total/NA | Solid | 8015C | 205008 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Metals

### Prep Batch: 204983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 3050B | |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 3050B | |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 3050B | |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 3050B | |
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 3050B | |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 205127

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 6010C | 204983 |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 6010C | 204983 |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 6010C | 204983 |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 6010C | 204983 |
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 6010C | 204983 |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 6010C | 204983 |
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 204983 |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 6010C | 204983 |

### Prep Batch: 205147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 7471B | |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 7471B | |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 7471B | |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 7471B | |
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | |

### Analysis Batch: 205374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | 7471B | 205147 |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | 7471B | 205147 |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | 7471B | 205147 |
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | 205147 |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | 205147 |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | 205147 |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | 205147 |

## General Chemistry

### Analysis Batch: 205191

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-1 | 05-SS-01 | Total/NA | Solid | Moisture | |
| 400-85521-2 | 05-SS-02 | Total/NA | Solid | Moisture | |
| 400-85521-3 | 05-SS-03 | Total/NA | Solid | Moisture | |
| 400-85521-4 | 05-SS-04 | Total/NA | Solid | Moisture | |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

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

**Lab Sample ID: MB 400-205024/21-A**
**Matrix: Solid**
**Analysis Batch: 205076**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 205024**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Acenaphthylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[a]anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[a]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[b]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[g,h,i]perylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[k]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Chrysene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Dibenz(a,h)anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluorene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Naphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Phenanthrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 1-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 2-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |

**Lab Sample ID: LCS 400-205024/20-A**
**Matrix: Solid**
**Analysis Batch: 205076**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 205024**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.40 | | mg/Kg | | 84 | 62 - 120 |
| Acenaphthylene | 1.67 | 1.32 | | mg/Kg | | 79 | 61 - 120 |
| Anthracene | 1.67 | 1.41 | | mg/Kg | | 85 | 68 - 120 |
| Benzo[a]anthracene | 1.67 | 1.55 | | mg/Kg | | 93 | 67 - 120 |
| Benzo[a]pyrene | 1.67 | 1.59 | | mg/Kg | | 95 | 64 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.48 | | mg/Kg | | 89 | 58 - 121 |
| Benzo[g,h,i]perylene | 1.67 | 1.50 | | mg/Kg | | 90 | 49 - 151 |
| Benzo[k]fluoranthene | 1.67 | 1.50 | | mg/Kg | | 90 | 61 - 123 |
| Chrysene | 1.67 | 1.53 | | mg/Kg | | 92 | 65 - 120 |
| Dibenz(a,h)anthracene | 1.67 | 1.61 | | mg/Kg | | 97 | 58 - 130 |
| Fluoranthene | 1.67 | 1.53 | | mg/Kg | | 92 | 67 - 123 |
| Fluorene | 1.67 | 1.50 | | mg/Kg | | 90 | 64 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.55 | | mg/Kg | | 93 | 55 - 133 |
| Naphthalene | 1.67 | 1.36 | | mg/Kg | | 82 | 59 - 120 |
| Phenanthrene | 1.67 | 1.42 | | mg/Kg | | 85 | 62 - 130 |
| Pyrene | 1.67 | 1.37 | | mg/Kg | | 82 | 57 - 127 |
| 1-Methylnaphthalene | 1.67 | 1.44 | | mg/Kg | | 86 | 66 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.42 | | mg/Kg | | 85 | 64 - 120 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

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

**Lab Sample ID: LCS 400-205024/20-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *84* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *88* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-I MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.19 | 1.78 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Acenaphthylene | 0.030 | I | 2.19 | 1.69 | | mg/Kg | ☼ | 76 | 10 - 150 |
| Anthracene | 0.061 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Benzo[a]anthracene | 0.36 | I | 2.19 | 2.35 | | mg/Kg | ☼ | 91 | 10 - 150 |
| Benzo[a]pyrene | 0.38 | I | 2.19 | 2.23 | | mg/Kg | ☼ | 84 | 10 - 150 |
| Benzo[b]fluoranthene | 0.57 | | 2.19 | 2.31 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.19 | 1.36 | | mg/Kg | ☼ | 56 | 10 - 150 |
| Benzo[k]fluoranthene | 0.21 | I | 2.19 | 2.09 | | mg/Kg | ☼ | 86 | 10 - 150 |
| Chrysene | 0.49 | | 2.19 | 2.35 | | mg/Kg | ☼ | 85 | 10 - 150 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.19 | 1.57 | | mg/Kg | ☼ | 72 | 32 - 111 |
| Fluoranthene | 0.64 | | 2.19 | 2.39 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Fluorene | 0.019 | I | 2.19 | 1.96 | | mg/Kg | ☼ | 89 | 10 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.19 | 1.59 | | mg/Kg | ☼ | 66 | 10 - 150 |
| Naphthalene | 0.031 | I | 2.19 | 1.65 | | mg/Kg | ☼ | 74 | 10 - 150 |
| Phenanthrene | 0.41 | I | 2.19 | 2.21 | | mg/Kg | ☼ | 82 | 10 - 150 |
| Pyrene | 0.47 | | 2.19 | 2.20 | | mg/Kg | ☼ | 79 | 10 - 150 |
| 1-Methylnaphthalene | 0.038 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 82 | 10 - 150 |
| 2-Methylnaphthalene | 0.044 | I | 2.19 | 1.74 | | mg/Kg | ☼ | 77 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *82* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *82* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.21 | 1.81 | | mg/Kg | ☼ | 82 | 10 - 150 | 2 | 36 |
| Acenaphthylene | 0.030 | I | 2.21 | 1.79 | | mg/Kg | ☼ | 80 | 10 - 150 | 6 | 29 |
| Anthracene | 0.061 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 87 | 10 - 150 | 8 | 30 |
| Benzo[a]anthracene | 0.36 | I | 2.21 | 2.52 | | mg/Kg | ☼ | 98 | 10 - 150 | 7 | 33 |
| Benzo[a]pyrene | 0.38 | I | 2.21 | 2.46 | | mg/Kg | ☼ | 94 | 10 - 150 | 10 | 30 |
| Benzo[b]fluoranthene | 0.57 | | 2.21 | 2.68 | | mg/Kg | ☼ | 96 | 10 - 150 | 15 | 31 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.21 | 1.43 | | mg/Kg | ☼ | 59 | 10 - 150 | 5 | 30 |
| Benzo[k]fluoranthene | 0.21 | I | 2.21 | 2.20 | | mg/Kg | ☼ | 90 | 10 - 150 | 5 | 29 |
| Chrysene | 0.49 | | 2.21 | 2.63 | | mg/Kg | ☼ | 97 | 10 - 150 | 11 | 33 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.21 | 1.67 | | mg/Kg | ☼ | 75 | 32 - 111 | 6 | 30 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

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

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 0.64 | | 2.21 | 2.81 | | mg/Kg | ☼ | 98 | 10 - 150 | 16 | 42 |
| Fluorene | 0.019 | I | 2.21 | 2.03 | | mg/Kg | ☼ | 91 | 10 - 150 | 3 | 36 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.21 | 1.64 | | mg/Kg | ☼ | 68 | 10 - 150 | 3 | 31 |
| Naphthalene | 0.031 | I | 2.21 | 1.80 | | mg/Kg | ☼ | 80 | 10 - 150 | 9 | 33 |
| Phenanthrene | 0.41 | I | 2.21 | 2.48 | | mg/Kg | ☼ | 94 | 10 - 150 | 11 | 34 |
| Pyrene | 0.47 | | 2.21 | 2.52 | | mg/Kg | ☼ | 93 | 10 - 150 | 14 | 45 |
| 1-Methylnaphthalene | 0.038 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 88 | 10 - 150 | 8 | 29 |
| 2-Methylnaphthalene | 0.044 | I | 2.21 | 1.90 | | mg/Kg | ☼ | 84 | 10 - 150 | 9 | 32 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *83* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *87* | | *36 - 134* |

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

**Lab Sample ID: MB 400-205008/18-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.07 | I | 5.0 | 1.7 | mg/Kg | | 01/20/14 08:30 | 01/21/14 19:43 | 1 |
| Oil Range Organics (C28-C35) | 2.17 | I | 5.0 | 1.7 | mg/Kg | | 01/20/14 08:30 | 01/21/14 19:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *95* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 19:43* | *1* |

**Lab Sample ID: LCS 400-205008/17-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 334 | 310 | | mg/Kg | | 93 | 61 - 136 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl (Surr)* | *105* | | *30 - 118* |

**Lab Sample ID: 400-85521-1 MS** — **Client Sample ID: 05-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 310 | | 443 | 566 | | mg/Kg | ☼ | 57 | 10 - 150 |

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

**Lab Sample ID: 400-85521-1 MS** — **Client Sample ID: 05-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl (Surr)* | *77* | | *30 - 118* |

**Lab Sample ID: 400-85521-1 MSD** — **Client Sample ID: 05-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 310 | | 442 | 528 | | mg/Kg | ☼ | 49 | 10 - 150 | 7 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl (Surr)* | *60* | | *30 - 118* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-204983/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Arsenic | 0.38 | U | 0.48 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Barium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Cadmium | 0.096 | U | 0.48 | 0.096 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Chromium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Lead | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Selenium | 0.433 | I | 0.96 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |

**Lab Sample ID: LCS 400-204983/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 44.3 | 39.1 | | mg/Kg | | 88 | 74 - 126 |
| Arsenic | 151 | 135 | | mg/Kg | | 89 | 81 - 120 |
| Barium | 262 | 238 | | mg/Kg | | 91 | 83 - 117 |
| Cadmium | 152 | 141 | | mg/Kg | | 93 | 82 - 118 |
| Chromium | 117 | 109 | | mg/Kg | | 93 | 79 - 121 |
| Lead | 254 | 252 | | mg/Kg | | 99 | 81 - 119 |
| Selenium | 162 | 139 | | mg/Kg | | 86 | 77 - 122 |

**Lab Sample ID: 400-85567-A-2-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 49.0 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 400-85567-A-2-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7.1 | | 98.0 | 6.91 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Barium | 2.8 | | 98.0 | 2.49 | J3 | mg/Kg | ☼ | -0.3 | 75 - 125 |
| Cadmium | 0.098 | U | 49.0 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |
| Chromium | 6.9 | | 98.0 | 6.47 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 |
| Lead | 2.9 | | 98.0 | 2.71 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Selenium | 0.85 | I V | 98.0 | 0.999 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 |

**Lab Sample ID: 400-85567-A-2-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 48.8 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Arsenic | 7.1 | | 97.6 | 6.27 | J3 | mg/Kg | ☼ | -0.8 | 75 - 125 | 10 | 20 |
| Barium | 2.8 | | 97.6 | 2.36 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 | 5 | 20 |
| Cadmium | 0.098 | U | 48.8 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Chromium | 6.9 | | 97.6 | 6.38 | J3 | mg/Kg | ☼ | -0.5 | 75 - 125 | 1 | 20 |
| Lead | 2.9 | | 97.6 | 2.73 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 | 1 | 20 |
| Selenium | 0.85 | I V | 97.6 | 1.01 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 | 1 | 20 |

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 400-205147/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.023 | U | 0.039 | 0.023 | mg/Kg | | 01/21/14 09:03 | 01/22/14 11:57 | 1 |

**Lab Sample ID: LCS 400-205147/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 5.76 | 4.73 | | mg/Kg | | 82 | 80 - 120 |

**Lab Sample ID: 400-85522-A-1-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.183 | 0.188 | | mg/Kg | ☼ | 86 | 75 - 125 |

**Lab Sample ID: 400-85522-A-1-F MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.180 | 0.188 | | mg/Kg | ☼ | 88 | 75 - 125 | 0 | 20 |

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.5 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

400-85521 COC

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_DRO (C10-C28) & ORO (C28-C40) | 8270D - PAHs | 6010C/7471A-RCRA 8 | | | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | S | N | D | N | N | N | N | N | N | N | N | N | | |
| 05-SS-01 | 1/14/14 | 1115 | G | Solid | N | N | X | X | X | | | | | | | | | | 1 | |
| 05-SS-02 | ↓ | 1120 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | 1 | |
| 05-SS-03 | ↓ | 1245 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | 1 | |
| 05-SS-04 | ↓ | 1255 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | 1 | |
| ~~05-SS-05~~ YB | ~~X~~ | | | | | | | | | | | | | | | | | | | |

**Possible Hazard Identification**
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | |
|---|---|---|---|---|---|
| Relinquished by: John Barksdale | Date/Time: 1/16/14 0850 | Company: Barksdale | Received by: | Date/Time: 1/17/14 905 | Company: TA-Pn |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.6°C IR-2

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85521-1

**Login Number: 85521**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Crawford, Lauren E**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.6°C IR-2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85521-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-14 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85522-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*1/31/2014 9:55:33 AM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Job ID: 400-85522-1

**Laboratory: TestAmerica Pensacola**

**Narrative**

**Job Narrative**
**400-85522-1**

**GC/MS Semi VOA**
Method(s) 8270D: The following samples were diluted due to the extracts color and oily appearance: 06-SS-01 (400-85522-1), 06-SS-02 (400-85522-2), 06-SS-03 (400-85522-3). Elevated reporting limits (RL) are provided.

**GC Semi VOA**
Method(s) 8015C: The method blank for batch 205008 contained C10-C28 and C28-C35 results above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8015C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 06-SS-01 (400-85522-1). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Surrogate recovery for the following sample was outside control limits: 06-SS-01 (400-85522-1). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

**Metals**
Method(s) 6010C: Spike compounds were inadvertently omitted during the digestion process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for batch 204983 The associated laboratory control sample (LCS) and post-digestion spike (PDS) met acceptance criteria.

Method(s) 6010C: The method blank for batch 400-204983 contained selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8015C | Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | SW846 | TAL PEN |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7471B | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846 | TAL PEN |
| Moisture | Percent Moisture | EPA | TAL PEN |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Solid | 01/13/14 15:45 | 01/17/14 09:05 |
| 400-85522-2 | 06-SS-02 | Solid | 01/13/14 15:55 | 01/17/14 09:05 |
| 400-85522-3 | 06-SS-03 | Solid | 01/13/14 16:00 | 01/17/14 09:05 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-01

**Date Collected: 01/13/14 15:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-1

**Matrix: Solid**
**Percent Solids: 84.2**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Acenaphthylene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Anthracene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Benzo[a]anthracene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Benzo[a]pyrene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Benzo[b]fluoranthene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Benzo[g,h,i]perylene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Benzo[k]fluoranthene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Chrysene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Dibenz(a,h)anthracene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Fluoranthene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Fluorene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Naphthalene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| Phenanthrene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| **Pyrene** | **0.066** | **I** | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| 1-Methylnaphthalene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |
| 2-Methylnaphthalene | 0.059 | U | 1.9 | 0.059 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 18:20 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *94* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 18:20* | *5* |
| *Nitrobenzene-d5 (Surr)* | *114* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 18:20* | *5* |
| *Terphenyl-d14 (Surr)* | *101* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 18:20* | *5* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Oil Range Organics (C28-C35)** | **4100** | | 120 | 40 | mg/Kg | ☼ | 01/20/14 08:30 | 01/22/14 13:25 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *78* | | *30 - 118* | *01/20/14 08:30* | *01/22/14 13:25* | *20* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0026 | U | 0.010 | 0.0026 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1221 | 0.0088 | U | 0.010 | 0.0088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1232 | 0.0094 | U | 0.010 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1242 | 0.0059 | U | 0.010 | 0.0059 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1248 | 0.0019 | U | 0.010 | 0.0019 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1254 | 0.0033 | U | 0.010 | 0.0033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |
| PCB-1260 | 0.0036 | U | 0.010 | 0.0036 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *0.01* | *J1* | *30 - 150* | *01/21/14 11:39* | *01/24/14 17:40* | *1* |
| *Tetrachloro-m-xylene* | *0.0009* | *J1* | *43 - 142* | *01/21/14 11:39* | *01/24/14 17:40* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.23 | U | 0.58 | 0.23 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |
| **Arsenic** | **5.3** | | 0.58 | 0.46 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |
| **Barium** | **47** | | 1.2 | 0.23 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |
| **Cadmium** | **0.35** | **I** | 0.58 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-01

**Date Collected: 01/13/14 15:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-1

**Matrix: Solid**
**Percent Solids: 84.2**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 45 | | 1.2 | 0.23 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |
| Lead | 14 | | 0.58 | 0.23 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |
| Selenium | 0.77 | I V | 1.2 | 0.46 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:32 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.016 | 0.0099 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:08 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-02

**Date Collected: 01/13/14 15:55**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-2

**Matrix: Solid**
**Percent Solids: 54.7**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Acenaphthylene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Anthracene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Benzo[a]anthracene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| **Benzo[a]pyrene** | **0.049** | **I** | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Benzo[b]fluoranthene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Benzo[g,h,i]perylene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Benzo[k]fluoranthene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Chrysene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Dibenz(a,h)anthracene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| **Fluoranthene** | **0.062** | **I** | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Fluorene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| **Indeno[1,2,3-cd]pyrene** | **0.042** | **I** | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Naphthalene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| Phenanthrene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| **Pyrene** | **0.080** | **I** | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| 1-Methylnaphthalene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |
| 2-Methylnaphthalene | 0.036 | U | 1.2 | 0.036 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 10:53 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *68* | | *44 - 108* | *01/20/14 08:55* | *01/23/14 10:53* | *2* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *27 - 114* | *01/20/14 08:55* | *01/23/14 10:53* | *2* |
| *Terphenyl-d14 (Surr)* | *67* | | *36 - 134* | *01/20/14 08:55* | *01/23/14 10:53* | *2* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Oil Range Organics (C28-C35)** | **52** | | 9.1 | 3.1 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 21:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *96* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 21:23* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0040 | U | 0.016 | 0.0040 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1221 | 0.014 | U | 0.016 | 0.014 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1232 | 0.015 | U | 0.016 | 0.015 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1242 | 0.0091 | U | 0.016 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1248 | 0.0030 | U | 0.016 | 0.0030 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1254 | 0.0051 | U | 0.016 | 0.0051 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |
| PCB-1260 | 0.0056 | U | 0.016 | 0.0056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *64* | | *30 - 150* | *01/21/14 11:39* | *01/24/14 18:30* | *1* |
| *Tetrachloro-m-xylene* | *100* | | *43 - 142* | *01/21/14 11:39* | *01/24/14 18:30* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Silver** | **0.62** | **I** | 0.83 | 0.33 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |
| **Arsenic** | **5.6** | | 0.83 | 0.67 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |
| **Barium** | **70** | | 1.7 | 0.33 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |
| **Cadmium** | **0.65** | **I** | 0.83 | 0.17 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-02

**Date Collected: 01/13/14 15:55**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-2

**Matrix: Solid**
**Percent Solids: 54.7**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 71 | | 1.7 | 0.33 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |
| Lead | 23 | | 0.83 | 0.33 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |
| Selenium | 1.0 | I V | 1.7 | 0.67 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:46 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.27 | | 0.026 | 0.015 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:22 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-03

**Date Collected: 01/13/14 16:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-3

**Matrix: Solid**
**Percent Solids: 81.0**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.065** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| Acenaphthylene | 0.024 | U | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Anthracene** | **0.12** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Benzo[a]anthracene** | **0.20** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Benzo[a]pyrene** | **0.16** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Benzo[b]fluoranthene** | **0.20** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Benzo[g,h,i]perylene** | **0.085** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Benzo[k]fluoranthene** | **0.069** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Chrysene** | **0.17** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| Dibenz(a,h)anthracene | 0.024 | U | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Fluoranthene** | **0.43** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Fluorene** | **0.041** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Indeno[1,2,3-cd]pyrene** | **0.085** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| Naphthalene | 0.024 | U | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Phenanthrene** | **0.41** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| **Pyrene** | **0.36** | **I** | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| 1-Methylnaphthalene | 0.024 | U | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |
| 2-Methylnaphthalene | 0.024 | U | 0.81 | 0.024 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 11:27 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *74* | | *44 - 108* | *01/20/14 08:55* | *01/23/14 11:27* | *2* |
| *Nitrobenzene-d5 (Surr)* | *81* | | *27 - 114* | *01/20/14 08:55* | *01/23/14 11:27* | *2* |
| *Terphenyl-d14 (Surr)* | *70* | | *36 - 134* | *01/20/14 08:55* | *01/23/14 11:27* | *2* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Oil Range Organics (C28-C35)** | **3.6** | **I V** | 6.1 | 2.1 | mg/Kg | ☼ | 01/20/14 08:30 | 01/21/14 21:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl (Surr)* | *87* | | *30 - 118* | *01/20/14 08:30* | *01/21/14 21:33* | *1* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0027 | U | 0.010 | 0.0027 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1221 | 0.0092 | U | 0.010 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1232 | 0.0098 | U | 0.010 | 0.0098 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1242 | 0.0061 | U | 0.010 | 0.0061 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1248 | 0.0020 | U | 0.010 | 0.0020 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1254 | 0.0034 | U | 0.010 | 0.0034 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |
| PCB-1260 | 0.0037 | U | 0.010 | 0.0037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *67* | | *30 - 150* | *01/21/14 11:39* | *01/24/14 18:55* | *1* |
| *Tetrachloro-m-xylene* | *103* | | *43 - 142* | *01/21/14 11:39* | *01/24/14 18:55* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.24 | U | 0.60 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |
| **Arsenic** | **4.0** | | 0.60 | 0.48 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |
| **Barium** | **55** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |
| **Cadmium** | **0.28** | **I** | 0.60 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-03

**Date Collected: 01/13/14 16:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-3

**Matrix: Solid**
**Percent Solids: 81.0**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 63 | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |
| Lead | 19 | | 0.60 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |
| Selenium | 0.48 | U | 1.2 | 0.48 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:49 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.017 | I | 0.019 | 0.012 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:23 | 1 |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1



## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J1 | Estimated value; value may not be accurate. Surrogate recovery outside of criteria. |
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| U | Indicates that the compound was analyzed for but not detected. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-01 — Lab Sample ID: 400-85522-1

**Date Collected: 01/13/14 15:45** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 84.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205079 | 01/21/14 18:20 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 20 | 205347 | 01/22/14 13:25 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 17:40 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205918 | 01/28/14 08:38 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 206023 | 01/30/14 11:48 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:32 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:08 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

## Client Sample ID: 06-SS-02 — Lab Sample ID: 400-85522-2

**Date Collected: 01/13/14 15:55** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 54.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 10:53 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 21:23 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 18:30 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:46 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:22 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205191 | 01/20/14 17:00 | VC2 | TAL PEN |

## Client Sample ID: 06-SS-03 — Lab Sample ID: 400-85522-3

**Date Collected: 01/13/14 16:00** — **Matrix: Solid**
**Date Received: 01/17/14 09:05** — **Percent Solids: 81.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 11:27 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205008 | 01/20/14 08:30 | RDT | TAL PEN |
| Total/NA | Analysis | 8015C | | 1 | 205179 | 01/21/14 21:33 | IDR | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 18:55 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Client Sample ID: 06-SS-03

**Date Collected: 01/13/14 16:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85522-3

**Matrix: Solid**
**Percent Solids: 81.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:49 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:23 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## GC/MS Semi VOA

### Prep Batch: 205024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 3550C | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 3550C | |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 3550C | |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 205076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 8270D | 205024 |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 8270D | 205024 |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 8270D | 205024 |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 8270D | 205024 |

### Analysis Batch: 205079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 8270D | 205024 |

### Analysis Batch: 205357

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 8270D | 205024 |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 8270D | 205024 |

## GC Semi VOA

### Prep Batch: 205008

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-A-1-C MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85521-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 3550C | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 3550C | |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 3550C | |
| LCS 400-205008/17-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205008/18-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 205179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85521-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015C | 205008 |
| 400-85521-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015C | 205008 |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 8015C | 205008 |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 8015C | 205008 |
| LCS 400-205008/17-A | Lab Control Sample | Total/NA | Solid | 8015C | 205008 |
| MB 400-205008/18-A | Method Blank | Total/NA | Solid | 8015C | 205008 |

### Prep Batch: 205185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 3550C | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 3550C | |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 3550C | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## GC Semi VOA (Continued)

### Prep Batch: 205185 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-A-5-N MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85526-A-5-O MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |
| LCS 400-205185/24-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 205347

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 8015C | 205008 |

### Analysis Batch: 205862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 8082A | 205185 |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 8082A | 205185 |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-A-5-N MS | Matrix Spike | Total/NA | Solid | 8082A | 205185 |
| 400-85526-A-5-O MSD | Matrix Spike Duplicate | Total/NA | Solid | 8082A | 205185 |
| LCS 400-205185/24-A | Lab Control Sample | Total/NA | Solid | 8082A | 205185 |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 8082A | 205185 |

### Prep Batch: 205918

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 3550C | |
| LCS 400-205918/4-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 400-205918/5-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 206023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 8082A | 205918 |
| LCS 400-205918/4-A | Lab Control Sample | Total/NA | Solid | 8082A | 205918 |
| MB 400-205918/5-A | Method Blank | Total/NA | Solid | 8082A | 205918 |

## Metals

### Prep Batch: 204983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 3050B | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 3050B | |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 3050B | |
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 3050B | |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 205127

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 6010C | 204983 |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 6010C | 204983 |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 6010C | 204983 |
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 6010C | 204983 |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 6010C | 204983 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Metals (Continued)

### Analysis Batch: 205127 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 204983 |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 6010C | 204983 |

### Prep Batch: 205147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 7471B | |
| 400-85522-1 MS | 06-SS-01 | Total/NA | Solid | 7471B | |
| 400-85522-1 MSD | 06-SS-01 | Total/NA | Solid | 7471B | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 7471B | |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 7471B | |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | |

### Analysis Batch: 205374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85522-1 MS | 06-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85522-1 MSD | 06-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | 7471B | 205147 |
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | 7471B | 205147 |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | 205147 |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | 205147 |

## General Chemistry

### Analysis Batch: 205191

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-1 | 06-SS-01 | Total/NA | Solid | Moisture | |
| 400-85522-2 | 06-SS-02 | Total/NA | Solid | Moisture | |

### Analysis Batch: 205246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-3 | 06-SS-03 | Total/NA | Solid | Moisture | |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

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

**Lab Sample ID: MB 400-205024/21-A**
**Matrix: Solid**
**Analysis Batch: 205076**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 205024**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Acenaphthylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[a]anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[a]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[b]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[g,h,i]perylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[k]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Chrysene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Dibenz(a,h)anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluorene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Naphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Phenanthrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 1-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 2-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |

**Lab Sample ID: LCS 400-205024/20-A**
**Matrix: Solid**
**Analysis Batch: 205076**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 205024**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.40 | | mg/Kg | | 84 | 62 - 120 |
| Acenaphthylene | 1.67 | 1.32 | | mg/Kg | | 79 | 61 - 120 |
| Anthracene | 1.67 | 1.41 | | mg/Kg | | 85 | 68 - 120 |
| Benzo[a]anthracene | 1.67 | 1.55 | | mg/Kg | | 93 | 67 - 120 |
| Benzo[a]pyrene | 1.67 | 1.59 | | mg/Kg | | 95 | 64 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.48 | | mg/Kg | | 89 | 58 - 121 |
| Benzo[g,h,i]perylene | 1.67 | 1.50 | | mg/Kg | | 90 | 49 - 151 |
| Benzo[k]fluoranthene | 1.67 | 1.50 | | mg/Kg | | 90 | 61 - 123 |
| Chrysene | 1.67 | 1.53 | | mg/Kg | | 92 | 65 - 120 |
| Dibenz(a,h)anthracene | 1.67 | 1.61 | | mg/Kg | | 97 | 58 - 130 |
| Fluoranthene | 1.67 | 1.53 | | mg/Kg | | 92 | 67 - 123 |
| Fluorene | 1.67 | 1.50 | | mg/Kg | | 90 | 64 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.55 | | mg/Kg | | 93 | 55 - 133 |
| Naphthalene | 1.67 | 1.36 | | mg/Kg | | 82 | 59 - 120 |
| Phenanthrene | 1.67 | 1.42 | | mg/Kg | | 85 | 62 - 130 |
| Pyrene | 1.67 | 1.37 | | mg/Kg | | 82 | 57 - 127 |
| 1-Methylnaphthalene | 1.67 | 1.44 | | mg/Kg | | 86 | 66 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.42 | | mg/Kg | | 85 | 64 - 120 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

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

**Lab Sample ID: LCS 400-205024/20-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *84* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *88* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-I MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.19 | 1.78 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Acenaphthylene | 0.030 | I | 2.19 | 1.69 | | mg/Kg | ☼ | 76 | 10 - 150 |
| Anthracene | 0.061 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Benzo[a]anthracene | 0.36 | I | 2.19 | 2.35 | | mg/Kg | ☼ | 91 | 10 - 150 |
| Benzo[a]pyrene | 0.38 | I | 2.19 | 2.23 | | mg/Kg | ☼ | 84 | 10 - 150 |
| Benzo[b]fluoranthene | 0.57 | | 2.19 | 2.31 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.19 | 1.36 | | mg/Kg | ☼ | 56 | 10 - 150 |
| Benzo[k]fluoranthene | 0.21 | I | 2.19 | 2.09 | | mg/Kg | ☼ | 86 | 10 - 150 |
| Chrysene | 0.49 | | 2.19 | 2.35 | | mg/Kg | ☼ | 85 | 10 - 150 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.19 | 1.57 | | mg/Kg | ☼ | 72 | 32 - 111 |
| Fluoranthene | 0.64 | | 2.19 | 2.39 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Fluorene | 0.019 | I | 2.19 | 1.96 | | mg/Kg | ☼ | 89 | 10 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.19 | 1.59 | | mg/Kg | ☼ | 66 | 10 - 150 |
| Naphthalene | 0.031 | I | 2.19 | 1.65 | | mg/Kg | ☼ | 74 | 10 - 150 |
| Phenanthrene | 0.41 | I | 2.19 | 2.21 | | mg/Kg | ☼ | 82 | 10 - 150 |
| Pyrene | 0.47 | | 2.19 | 2.20 | | mg/Kg | ☼ | 79 | 10 - 150 |
| 1-Methylnaphthalene | 0.038 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 82 | 10 - 150 |
| 2-Methylnaphthalene | 0.044 | I | 2.19 | 1.74 | | mg/Kg | ☼ | 77 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *82* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *82* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.21 | 1.81 | | mg/Kg | ☼ | 82 | 10 - 150 | 2 | 36 |
| Acenaphthylene | 0.030 | I | 2.21 | 1.79 | | mg/Kg | ☼ | 80 | 10 - 150 | 6 | 29 |
| Anthracene | 0.061 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 87 | 10 - 150 | 8 | 30 |
| Benzo[a]anthracene | 0.36 | I | 2.21 | 2.52 | | mg/Kg | ☼ | 98 | 10 - 150 | 7 | 33 |
| Benzo[a]pyrene | 0.38 | I | 2.21 | 2.46 | | mg/Kg | ☼ | 94 | 10 - 150 | 10 | 30 |
| Benzo[b]fluoranthene | 0.57 | | 2.21 | 2.68 | | mg/Kg | ☼ | 96 | 10 - 150 | 15 | 31 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.21 | 1.43 | | mg/Kg | ☼ | 59 | 10 - 150 | 5 | 30 |
| Benzo[k]fluoranthene | 0.21 | I | 2.21 | 2.20 | | mg/Kg | ☼ | 90 | 10 - 150 | 5 | 29 |
| Chrysene | 0.49 | | 2.21 | 2.63 | | mg/Kg | ☼ | 97 | 10 - 150 | 11 | 33 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.21 | 1.67 | | mg/Kg | ☼ | 75 | 32 - 111 | 6 | 30 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

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

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 0.64 | | 2.21 | 2.81 | | mg/Kg | ☼ | 98 | 10 - 150 | 16 | 42 |
| Fluorene | 0.019 | I | 2.21 | 2.03 | | mg/Kg | ☼ | 91 | 10 - 150 | 3 | 36 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.21 | 1.64 | | mg/Kg | ☼ | 68 | 10 - 150 | 3 | 31 |
| Naphthalene | 0.031 | I | 2.21 | 1.80 | | mg/Kg | ☼ | 80 | 10 - 150 | 9 | 33 |
| Phenanthrene | 0.41 | I | 2.21 | 2.48 | | mg/Kg | ☼ | 94 | 10 - 150 | 11 | 34 |
| Pyrene | 0.47 | | 2.21 | 2.52 | | mg/Kg | ☼ | 93 | 10 - 150 | 14 | 45 |
| 1-Methylnaphthalene | 0.038 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 88 | 10 - 150 | 8 | 29 |
| 2-Methylnaphthalene | 0.044 | I | 2.21 | 1.90 | | mg/Kg | ☼ | 84 | 10 - 150 | 9 | 32 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *83* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *87* | | *36 - 134* |

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

**Lab Sample ID: MB 400-205008/18-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (C28-C35) | 2.17 | I | 5.0 | 1.7 | mg/Kg | | 01/20/14 08:30 | 01/21/14 19:43 | 1 |

**Lab Sample ID: LCS 400-205008/17-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 334 | 310 | | mg/Kg | | 93 | 61 - 136 |

**Lab Sample ID: 400-85521-A-1-C MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 310 | | 443 | 566 | | mg/Kg | ☼ | 57 | 10 - 150 |

**Lab Sample ID: 400-85521-A-1-D MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205179** — **Prep Batch: 205008**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 310 | | 442 | 528 | | mg/Kg | ☼ | 49 | 10 - 150 | 7 | 40 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0022 | U | 0.0085 | 0.0022 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1221 | 0.0075 | U | 0.0085 | 0.0075 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1232 | 0.0080 | U | 0.0085 | 0.0080 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1242 | 0.0050 | U | 0.0085 | 0.0050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1248 | 0.0016 | U | 0.0085 | 0.0016 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1254 | 0.0028 | U | 0.0085 | 0.0028 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1260 | 0.0030 | U | 0.0085 | 0.0030 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *73* | | *30 - 150* | *01/21/14 11:39* | *01/24/14 13:55* | *1* |
| *Tetrachloro-m-xylene* | *98* | | *43 - 142* | *01/21/14 11:39* | *01/24/14 13:55* | *1* |

**Lab Sample ID: LCS 400-205185/24-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.166 | 0.156 | | mg/Kg | | 94 | 54 - 126 |
| PCB-1260 | 0.166 | 0.144 | | mg/Kg | | 87 | 56 - 139 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *71* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *95* | | *43 - 142* |

**Lab Sample ID: 400-85526-A-5-N MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.182 | 0.184 | | mg/Kg | ☼ | 101 | 15 - 150 |
| PCB-1260 | 0.0034 | U | 0.182 | 0.175 | | mg/Kg | ☼ | 96 | 21 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *75* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *113* | | *43 - 142* |

**Lab Sample ID: 400-85526-A-5-O MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.184 | 0.186 | | mg/Kg | ☼ | 101 | 15 - 150 | 1 | 42 |
| PCB-1260 | 0.0034 | U | 0.184 | 0.183 | | mg/Kg | ☼ | 99 | 21 - 150 | 4 | 29 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *74* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *106* | | *43 - 142* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-204983/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Arsenic | 0.38 | U | 0.48 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Barium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Cadmium | 0.096 | U | 0.48 | 0.096 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Chromium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Lead | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Selenium | 0.433 | I | 0.96 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |

**Lab Sample ID: LCS 400-204983/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 44.3 | 39.1 | | mg/Kg | | 88 | 74 - 126 |
| Arsenic | 151 | 135 | | mg/Kg | | 89 | 81 - 120 |
| Barium | 262 | 238 | | mg/Kg | | 91 | 83 - 117 |
| Cadmium | 152 | 141 | | mg/Kg | | 93 | 82 - 118 |
| Chromium | 117 | 109 | | mg/Kg | | 93 | 79 - 121 |
| Lead | 254 | 252 | | mg/Kg | | 99 | 81 - 119 |
| Selenium | 162 | 139 | | mg/Kg | | 86 | 77 - 122 |

**Lab Sample ID: 400-85567-A-2-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 49.0 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |
| Arsenic | 7.1 | | 98.0 | 6.91 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Barium | 2.8 | | 98.0 | 2.49 | J3 | mg/Kg | ☼ | -0.3 | 75 - 125 |
| Cadmium | 0.098 | U | 49.0 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |
| Chromium | 6.9 | | 98.0 | 6.47 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 |
| Lead | 2.9 | | 98.0 | 2.71 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Selenium | 0.85 | I V | 98.0 | 0.999 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 |

**Lab Sample ID: 400-85567-A-2-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 48.8 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Arsenic | 7.1 | | 97.6 | 6.27 | J3 | mg/Kg | ☼ | -0.8 | 75 - 125 | 10 | 20 |
| Barium | 2.8 | | 97.6 | 2.36 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 | 5 | 20 |
| Cadmium | 0.098 | U | 48.8 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Chromium | 6.9 | | 97.6 | 6.38 | J3 | mg/Kg | ☼ | -0.5 | 75 - 125 | 1 | 20 |
| Lead | 2.9 | | 97.6 | 2.73 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 | 1 | 20 |
| Selenium | 0.85 | I V | 97.6 | 1.01 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 | 1 | 20 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 400-205147/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.023 | U | 0.039 | 0.023 | mg/Kg | | 01/21/14 09:03 | 01/22/14 11:57 | 1 |

**Lab Sample ID: LCS 400-205147/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 5.76 | 4.73 | | mg/Kg | | 82 | 80 - 120 |

**Lab Sample ID: 400-85522-1 MS** — **Client Sample ID: 06-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.183 | 0.188 | | mg/Kg | ☼ | 86 | 75 - 125 |

**Lab Sample ID: 400-85522-1 MSD** — **Client Sample ID: 06-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.180 | 0.188 | | mg/Kg | ☼ | 88 | 75 - 125 | 0 | 20 |

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

85522

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| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.6 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

400-85522 COC

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (w=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_ORO (C28-C40) | 8270D - PAHs | 8082 - PCBs | 6010C/7471A - RCRA 8 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | N | | |
| 06 - SS-01 | 1/13/14 | 1545 | | Solid | X | X | X | X | X | X | 1 | |
| 06 - SS-02 | ↓ | 1555 | | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 1 | |
| 06 - SS-03 | ↓ | 1600 | | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 1 | |

**Possible Hazard Identification**
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/16/14 0850 | Barksdale | [signature] | 1-17-14 905 | TA-Pc |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.6°C IR-2

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85522-1

**Login Number: 85522**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Crawford, Lauren E**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.6°C IR-2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85522-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-14 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85526-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*2/4/2014 10:42:55 AM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Job ID: 400-85526-1

### Laboratory: TestAmerica Pensacola

**Narrative**

**Job Narrative**
**400-85526-1**

**GC/MS Semi VOA**
Method(s) 8141A: The continuing calibration verification (CCV) associated with batch 205698 recovered above the upper control limit for Dichlorvos. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 07-SS-01 (400-85526-1), 07-SS-02 (400-85526-2), 07-SS-04 (400-85526-4), 07-SS-05 (400-85526-5).

Method(s) 8270D: The following samples were diluted due to the extracts color and oily appearance: 07-SS-01 (400-85526-1), 07-SS-02 (400-85526-2), 07-SS-03 (400-85526-3), 07-SS-04 (400-85526-4). Elevated reporting limits (RL) are provided.

**GC Semi VOA**
Method(s) 8151A: The following sample were diluted due to dark, yellow color: 07-SS-02 (400-85526-2), 07-SS-03 (400-85526-3), 07-SS-04 (400-85526-4), 07-SS-05 (400-85526-5). Elevated reporting limits (RL) are provided.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 205585 recovered above the upper control limit for Dalapon. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 07-SS-01 (400-85526-1), 07-SS-02 (400-85526-2), 07-SS-03 (400-85526-3), 07-SS-04 (400-85526-4), 07-SS-05 (400-85526-5).

**Metals**
Method(s) 6010C: Spike compounds were inadvertently omitted during the digestion process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for batch 204983 The associated laboratory control sample (LCS) and post-digestion spike (PDS) met acceptance criteria.

Method(s) 6010C: The method blank for batch 400-204983 contained selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8141A | Organophosphorous Pesticides (GC/MS) | SW846 | TAL PEN |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8081B | Organochlorine Pesticides (GC) | SW846 | TAL PEN |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PEN |
| 8151A | Herbicides (GC) | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7471B | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846 | TAL PEN |
| Moisture | Percent Moisture | EPA | TAL PEN |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Solid | 01/15/14 14:20 | 01/17/14 09:05 |
| 400-85526-2 | 07-SS-02 | Solid | 01/15/14 15:00 | 01/17/14 09:05 |
| 400-85526-3 | 07-SS-03 | Solid | 01/15/14 15:20 | 01/17/14 09:05 |
| 400-85526-4 | 07-SS-04 | Solid | 01/15/14 15:45 | 01/17/14 09:05 |
| 400-85526-5 | 07-SS-05 | Solid | 01/15/14 14:20 | 01/17/14 09:05 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

**Client Sample ID: 07-SS-01** | **Lab Sample ID: 400-85526-1**
**Date Collected: 01/15/14 14:20** | **Matrix: Solid**
**Date Received: 01/17/14 09:05** | **Percent Solids: 90.4**

## Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0072 | U | 0.036 | 0.0072 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Chlorpyrifos | 0.0082 | U | 0.036 | 0.0082 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Coumaphos | 0.014 | U | 0.36 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 20:15 | 1 |
| Diazinon | 0.016 | U | 0.072 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Dichlorvos | 0.0076 | U | 0.072 | 0.0076 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Disulfoton | 0.0068 | U | 0.072 | 0.0068 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Ethoprop | 0.012 | U | 0.036 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Fensulfothion | 0.012 | U | 0.36 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Fenthion | 0.0083 | U | 0.036 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Methyl parathion | 0.0083 | U | 0.036 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Mevinphos | 0.014 | U | 0.072 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Phorate | 0.011 | U | 0.036 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Ronnel | 0.0081 | U | 0.036 | 0.0081 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Stirophos | 0.020 | U | 0.036 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Terbutryn | 0.0091 | U | 0.036 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Tokuthion | 0.023 | U | 0.036 | 0.023 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Dimethoate | 0.0090 | U | 0.072 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| EPN | 0.0089 | U | 0.072 | 0.0089 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Ethyl Parathion | 0.0092 | U | 0.036 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Malathion | 0.0070 | U | 0.036 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Sulfotepp | 0.0072 | U | 0.036 | 0.0072 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |
| Famphur | 0.0093 | U | 0.072 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 20:15 | 1 |
| Thionazin | 0.010 | U | 0.036 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 21:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *69* | | *30 - 164* | *01/21/14 11:27* | *01/30/14 21:47* | *1* |
| *Triphenylphosphate* | *69* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 20:15* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Acenaphthylene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Anthracene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Benzo[a]anthracene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Benzo[a]pyrene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Benzo[b]fluoranthene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Benzo[g,h,i]perylene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Benzo[k]fluoranthene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Chrysene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Dibenz(a,h)anthracene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Fluoranthene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Fluorene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Indeno[1,2,3-cd]pyrene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Naphthalene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Phenanthrene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Pyrene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| 1-Methylnaphthalene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| 2-Methylnaphthalene | 0.022 | U | 0.72 | 0.022 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:00 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-01

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-1

**Matrix: Solid**
**Percent Solids: 90.4**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 77 | | 44 - 108 | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Nitrobenzene-d5 (Surr) | 84 | | 27 - 114 | 01/20/14 08:55 | 01/23/14 12:00 | 2 |
| Terphenyl-d14 (Surr) | 73 | | 36 - 134 | 01/20/14 08:55 | 01/23/14 12:00 | 2 |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| alpha-BHC | 0.000045 | U | 0.00094 | 0.000045 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| beta-BHC | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| delta-BHC | 0.000039 | U | 0.00094 | 0.000039 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| alpha-Chlordane | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| gamma-Chlordane | 0.000053 | U | 0.00094 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| **4,4'-DDD** | **0.00012** | **I** | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| **4,4'-DDE** | **0.00065** | **I** | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| **4,4'-DDT** | **0.00049** | **I** | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Dieldrin | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endosulfan I | 0.000088 | U | 0.00094 | 0.000088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endosulfan II | 0.000046 | U | 0.00094 | 0.000046 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endosulfan sulfate | 0.00014 | U | 0.00094 | 0.00014 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endrin | 0.000043 | U | 0.00094 | 0.000043 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endrin aldehyde | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Endrin ketone | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Heptachlor | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Heptachlor epoxide | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Methoxychlor | 0.00016 | U | 0.00094 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Toxaphene | 0.0094 | U | 0.055 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 105 | | 47 - 148 | 01/21/14 11:39 | 01/24/14 17:26 | 1 |
| Tetrachloro-m-xylene | 106 | | 65 - 134 | 01/21/14 11:39 | 01/24/14 17:26 | 1 |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.0094 | 0.0024 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1221 | 0.0083 | U | 0.0094 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1232 | 0.0088 | U | 0.0094 | 0.0088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1242 | 0.0055 | U | 0.0094 | 0.0055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1248 | 0.0018 | U | 0.0094 | 0.0018 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1254 | 0.0031 | U | 0.0094 | 0.0031 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| PCB-1260 | 0.0034 | U | 0.0094 | 0.0034 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 78 | | 30 - 150 | 01/21/14 11:39 | 01/24/14 16:00 | 1 |
| Tetrachloro-m-xylene | 113 | | 43 - 142 | 01/21/14 11:39 | 01/24/14 16:00 | 1 |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.012 | U | 0.22 | 0.012 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| 2,4-DB | 0.0077 | U | 0.017 | 0.0077 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| 2,4,5-T | 0.0038 | U | 0.044 | 0.0038 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-01

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-1

**Matrix: Solid**
**Percent Solids: 90.4**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | 0.019 | U | 0.044 | 0.019 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| Dalapon | 0.078 | U | 1.3 | 0.078 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| Dicamba | 0.0013 | U | 0.066 | 0.0013 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| Dichlorprop | 0.0036 | U | 0.14 | 0.0036 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| Dinoseb | 0.0048 | U | 0.22 | 0.0048 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| MCPA | 0.96 | U | 55 | 0.96 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |
| MCPP | 0.44 | U | 55 | 0.44 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *90* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 18:30* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.21 | U | 0.52 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| **Arsenic** | **0.80** | | 0.52 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| **Barium** | **80** | | 1.0 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| Cadmium | 0.10 | U | 0.52 | 0.10 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| **Chromium** | **14** | | 1.0 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| **Lead** | **5.4** | | 0.52 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |
| Selenium | 0.42 | U | 1.0 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:52 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.018** | | 0.016 | 0.0097 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:25 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-02

**Date Collected: 01/15/14 15:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-2

**Matrix: Solid**
**Percent Solids: 67.7**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0097 | U | 0.049 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Chlorpyrifos | 0.011 | U | 0.049 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Coumaphos | 0.019 | U | 0.49 | 0.019 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 20:48 | 1 |
| Diazinon | 0.022 | U | 0.097 | 0.022 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Dichlorvos | 0.010 | U | 0.097 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Disulfoton | 0.0091 | U | 0.097 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Ethoprop | 0.016 | U | 0.049 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Fensulfothion | 0.016 | U | 0.49 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Fenthion | 0.011 | U | 0.049 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Methyl parathion | 0.011 | U | 0.049 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Mevinphos | 0.019 | U | 0.097 | 0.019 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Phorate | 0.015 | U | 0.049 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Ronnel | 0.011 | U | 0.049 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Stirophos | 0.026 | U | 0.049 | 0.026 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Terbutryn | 0.012 | U | 0.049 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Tokuthion | 0.031 | U | 0.049 | 0.031 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Dimethoate | 0.012 | U | 0.097 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| EPN | 0.012 | U | 0.097 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Ethyl Parathion | 0.012 | U | 0.049 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Malathion | 0.0094 | U | 0.049 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Sulfotepp | 0.0097 | U | 0.049 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |
| Famphur | 0.013 | U | 0.097 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 20:48 | 1 |
| Thionazin | 0.014 | U | 0.049 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 22:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *90* | | *30 - 164* | *01/21/14 11:27* | *01/30/14 22:21* | *1* |
| *Triphenylphosphate* | *95* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 20:48* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Acenaphthylene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Anthracene** | **0.042** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Benzo[a]anthracene** | **0.24** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Benzo[a]pyrene** | **0.21** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Benzo[b]fluoranthene** | **0.31** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Benzo[g,h,i]perylene** | **0.14** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Benzo[k]fluoranthene** | **0.10** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Chrysene** | **0.23** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Dibenz(a,h)anthracene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Fluoranthene** | **0.48** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Fluorene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Indeno[1,2,3-cd]pyrene** | **0.13** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Naphthalene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Phenanthrene** | **0.20** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| **Pyrene** | **0.41** | **I** | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| 1-Methylnaphthalene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| 2-Methylnaphthalene | 0.029 | U | 0.97 | 0.029 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 12:34 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-02

**Date Collected: 01/15/14 15:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-2

**Matrix: Solid**
**Percent Solids: 67.7**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 71 | | 44 - 108 | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Nitrobenzene-d5 (Surr) | 78 | | 27 - 114 | 01/20/14 08:55 | 01/23/14 12:34 | 2 |
| Terphenyl-d14 (Surr) | 70 | | 36 - 134 | 01/20/14 08:55 | 01/23/14 12:34 | 2 |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| alpha-BHC | 0.00030 | U | 0.0063 | 0.00030 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| beta-BHC | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| delta-BHC | 0.00026 | U | 0.0063 | 0.00026 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| gamma-BHC (Lindane) | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| **alpha-Chlordane** | **0.0019** | **I** | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| **gamma-Chlordane** | **0.00088** | **I** | 0.0063 | 0.00036 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| 4,4'-DDD | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| **4,4'-DDE** | **0.0085** | | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| **4,4'-DDT** | **0.0016** | **I** | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| **Dieldrin** | **0.0010** | **I** | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endosulfan I | 0.00059 | U | 0.0063 | 0.00059 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endosulfan II | 0.00031 | U | 0.0063 | 0.00031 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endosulfan sulfate | 0.00096 | U | 0.0063 | 0.00096 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endrin | 0.00029 | U | 0.0063 | 0.00029 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endrin aldehyde | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Endrin ketone | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Heptachlor | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Heptachlor epoxide | 0.00037 | U | 0.0063 | 0.00037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Methoxychlor | 0.0011 | U | 0.0063 | 0.0011 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Toxaphene | 0.063 | U | 0.37 | 0.063 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:57 | 5 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 99 | | 47 - 148 | 01/21/14 11:39 | 01/24/14 17:57 | 5 |
| Tetrachloro-m-xylene | 83 | | 65 - 134 | 01/21/14 11:39 | 01/24/14 17:57 | 5 |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0032 | U | 0.013 | 0.0032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1221 | 0.011 | U | 0.013 | 0.011 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1232 | 0.012 | U | 0.013 | 0.012 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1242 | 0.0074 | U | 0.013 | 0.0074 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1248 | 0.0024 | U | 0.013 | 0.0024 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1254 | 0.0041 | U | 0.013 | 0.0041 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| PCB-1260 | 0.0045 | U | 0.013 | 0.0045 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 73 | | 30 - 150 | 01/21/14 11:39 | 01/24/14 16:25 | 1 |
| Tetrachloro-m-xylene | 111 | | 43 - 142 | 01/21/14 11:39 | 01/24/14 16:25 | 1 |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.032 | U | 0.58 | 0.032 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| 2,4-DB | 0.020 | U | 0.044 | 0.020 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| 2,4,5-T | 0.0099 | U | 0.12 | 0.0099 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-02

**Date Collected: 01/15/14 15:00**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-2

**Matrix: Solid**
**Percent Solids: 67.7**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | 0.050 | U | 0.12 | 0.050 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| Dalapon | 0.21 | U | 3.5 | 0.21 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| Dicamba | 0.0035 | U | 0.18 | 0.0035 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| Dichlorprop | 0.0096 | U | 0.38 | 0.0096 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| Dinoseb | 0.013 | U | 0.58 | 0.013 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| MCPA | 2.5 | U | 150 | 2.5 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |
| MCPP | 1.2 | U | 150 | 1.2 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:57 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *57* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 18:57* | *2* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.27 | U | 0.69 | 0.27 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| **Arsenic** | **5.8** | | 0.69 | 0.55 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| **Barium** | **79** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| **Cadmium** | **0.29** | **I** | 0.69 | 0.14 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| **Chromium** | **27** | | 1.4 | 0.27 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| **Lead** | **11** | | 0.69 | 0.27 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |
| Selenium | 0.55 | U | 1.4 | 0.55 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:55 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.040** | | 0.022 | 0.013 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:27 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-03

**Date Collected: 01/15/14 15:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-3

**Matrix: Solid**
**Percent Solids: 78.2**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0084 | U | 0.042 | 0.0084 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Chlorpyrifos | 0.0095 | U | 0.042 | 0.0095 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Coumaphos | 0.017 | U | 0.42 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Diazinon | 0.019 | U | 0.084 | 0.019 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Dichlorvos | 0.0088 | U | 0.084 | 0.0088 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Disulfoton | 0.0079 | U | 0.084 | 0.0079 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Ethoprop | 0.014 | U | 0.042 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Fensulfothion | 0.014 | U | 0.42 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Fenthion | 0.0097 | U | 0.042 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Methyl parathion | 0.0097 | U | 0.042 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Mevinphos | 0.017 | U | 0.084 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Phorate | 0.013 | U | 0.042 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Ronnel | 0.0094 | U | 0.042 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Stirophos | 0.023 | U | 0.042 | 0.023 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Terbutryn | 0.011 | U | 0.042 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Tokuthion | 0.027 | U | 0.042 | 0.027 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Dimethoate | 0.010 | U | 0.084 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| EPN | 0.010 | U | 0.084 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Ethyl Parathion | 0.011 | U | 0.042 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Malathion | 0.0081 | U | 0.042 | 0.0081 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Sulfotepp | 0.0084 | U | 0.042 | 0.0084 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Famphur | 0.011 | U | 0.084 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |
| Thionazin | 0.012 | U | 0.042 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 02:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *106* | | *30 - 164* | *01/21/14 11:27* | *02/01/14 02:20* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Acenaphthylene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Anthracene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Benzo[a]anthracene** | **0.052** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Benzo[a]pyrene** | **0.068** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Benzo[b]fluoranthene** | **0.10** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Benzo[g,h,i]perylene** | **0.053** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Benzo[k]fluoranthene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Chrysene** | **0.040** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Dibenz(a,h)anthracene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Fluoranthene** | **0.13** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Fluorene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Indeno[1,2,3-cd]pyrene** | **0.051** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| Naphthalene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Phenanthrene** | **0.052** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| **Pyrene** | **0.11** | **I** | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| 1-Methylnaphthalene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |
| 2-Methylnaphthalene | 0.025 | U | 0.83 | 0.025 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:07 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *81* | | *44 - 108* | *01/20/14 08:55* | *01/23/14 13:07* | *2* |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-03

**Date Collected: 01/15/14 15:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-3

**Matrix: Solid**
**Percent Solids: 78.2**

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5 (Surr)* | *94* | | *27 - 114* | *01/20/14 08:55* | *01/23/14 13:07* | *2* |
| *Terphenyl-d14 (Surr)* | *78* | | *36 - 134* | *01/20/14 08:55* | *01/23/14 13:07* | *2* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| alpha-BHC | 0.00026 | U | 0.0054 | 0.00026 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| beta-BHC | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| delta-BHC | 0.00022 | U | 0.0054 | 0.00022 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| gamma-BHC (Lindane) | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| **alpha-Chlordane** | **0.0017** | **I** | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| **gamma-Chlordane** | **0.00065** | **I** | 0.0054 | 0.00031 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| 4,4'-DDD | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| **4,4'-DDE** | **0.013** | | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| **4,4'-DDT** | **0.0042** | **I** | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| **Dieldrin** | **0.00059** | **I** | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endosulfan I | 0.00051 | U | 0.0054 | 0.00051 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endosulfan II | 0.00026 | U | 0.0054 | 0.00026 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endosulfan sulfate | 0.00082 | U | 0.0054 | 0.00082 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endrin | 0.00025 | U | 0.0054 | 0.00025 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endrin aldehyde | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Endrin ketone | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Heptachlor | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Heptachlor epoxide | 0.00032 | U | 0.0054 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Methoxychlor | 0.00092 | U | 0.0054 | 0.00092 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |
| Toxaphene | 0.054 | U | 0.32 | 0.054 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 18:29 | 5 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *81* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 18:29* | *5* |
| *Tetrachloro-m-xylene* | *75* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 18:29* | *5* |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0028 | U | 0.011 | 0.0028 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| PCB-1221 | 0.0095 | U | 0.011 | 0.0095 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| PCB-1232 | 0.010 | U | 0.011 | 0.010 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| PCB-1242 | 0.0063 | U | 0.011 | 0.0063 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| PCB-1248 | 0.0021 | U | 0.011 | 0.0021 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| PCB-1254 | 0.0035 | U | 0.011 | 0.0035 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |
| **PCB-1260** | **0.028** | | 0.011 | 0.0039 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *72* | | *30 - 150* | *01/21/14 11:39* | *01/24/14 16:50* | *1* |
| *Tetrachloro-m-xylene* | *110* | | *43 - 142* | *01/21/14 11:39* | *01/24/14 16:50* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.028 | U | 0.51 | 0.028 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| 2,4-DB | 0.018 | U | 0.038 | 0.018 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| 2,4,5-T | 0.0086 | U | 0.10 | 0.0086 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-03

**Date Collected: 01/15/14 15:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-3

**Matrix: Solid**
**Percent Solids: 78.2**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | 0.043 | U | 0.10 | 0.043 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| Dalapon | 0.18 | U | 3.0 | 0.18 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| Dicamba | 0.0030 | U | 0.15 | 0.0030 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| Dichlorprop | 0.0083 | U | 0.33 | 0.0083 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| Dinoseb | 0.011 | U | 0.51 | 0.011 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| MCPA | 2.2 | U | 130 | 2.2 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |
| MCPP | 1.0 | U | 130 | 1.0 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:20 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *66* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 19:20* | *2* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.24 | U | 0.61 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Arsenic** | **4.3** | | 0.61 | 0.49 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Barium** | **58** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Cadmium** | **0.39** | **I** | 0.61 | 0.12 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Chromium** | **36** | | 1.2 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Lead** | **10** | | 0.61 | 0.24 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |
| **Selenium** | **0.68** | **I V** | 1.2 | 0.49 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 15:59 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.052** | | 0.018 | 0.011 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:29 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-04

**Date Collected: 01/15/14 15:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-4

**Matrix: Solid**
**Percent Solids: 86.3**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0076 | U | 0.038 | 0.0076 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Chlorpyrifos | 0.0086 | U | 0.038 | 0.0086 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Coumaphos | 0.015 | U | 0.38 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 21:55 | 1 |
| Diazinon | 0.017 | U | 0.076 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Dichlorvos | 0.0079 | U | 0.076 | 0.0079 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Disulfoton | 0.0071 | U | 0.076 | 0.0071 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Ethoprop | 0.013 | U | 0.038 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Fensulfothion | 0.013 | U | 0.38 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Fenthion | 0.0087 | U | 0.038 | 0.0087 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Methyl parathion | 0.0087 | U | 0.038 | 0.0087 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Mevinphos | 0.015 | U | 0.076 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Phorate | 0.011 | U | 0.038 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Ronnel | 0.0085 | U | 0.038 | 0.0085 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Stirophos | 0.021 | U | 0.038 | 0.021 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Terbutryn | 0.0095 | U | 0.038 | 0.0095 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Tokuthion | 0.024 | U | 0.038 | 0.024 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Dimethoate | 0.0094 | U | 0.076 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| EPN | 0.0093 | U | 0.076 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Ethyl Parathion | 0.0096 | U | 0.038 | 0.0096 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Malathion | 0.0073 | U | 0.038 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Sulfotepp | 0.0076 | U | 0.038 | 0.0076 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |
| Famphur | 0.0097 | U | 0.076 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 21:55 | 1 |
| Thionazin | 0.011 | U | 0.038 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/30/14 23:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *91* | | *30 - 164* | *01/21/14 11:27* | *01/30/14 23:27* | *1* |
| *Triphenylphosphate* | *102* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 21:55* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Acenaphthylene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Anthracene** | **0.031** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Benzo[a]anthracene** | **0.11** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Benzo[a]pyrene** | **0.11** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Benzo[b]fluoranthene** | **0.14** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Benzo[g,h,i]perylene** | **0.063** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Benzo[k]fluoranthene** | **0.053** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Chrysene** | **0.12** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Dibenz(a,h)anthracene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Fluoranthene** | **0.28** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Fluorene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Indeno[1,2,3-cd]pyrene** | **0.060** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Naphthalene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Phenanthrene** | **0.15** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| **Pyrene** | **0.23** | **I** | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| 1-Methylnaphthalene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| 2-Methylnaphthalene | 0.023 | U | 0.76 | 0.023 | mg/Kg | ☼ | 01/20/14 08:55 | 01/23/14 13:40 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-04

**Date Collected: 01/15/14 15:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-4

**Matrix: Solid**
**Percent Solids: 86.3**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 78 | | 44 - 108 | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Nitrobenzene-d5 (Surr) | 86 | | 27 - 114 | 01/20/14 08:55 | 01/23/14 13:40 | 2 |
| Terphenyl-d14 (Surr) | 74 | | 36 - 134 | 01/20/14 08:55 | 01/23/14 13:40 | 2 |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| alpha-BHC | 0.00047 | U | 0.0098 | 0.00047 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| beta-BHC | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| delta-BHC | 0.00040 | U | 0.0098 | 0.00040 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| gamma-BHC (Lindane) | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| alpha-Chlordane | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| gamma-Chlordane | 0.00056 | U | 0.0098 | 0.00056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| **4,4'-DDD** | **0.0014** | **I** | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| **4,4'-DDE** | **0.021** | | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| **4,4'-DDT** | **0.0087** | **I** | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| **Dieldrin** | **0.0012** | **I** | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endosulfan I | 0.00092 | U | 0.0098 | 0.00092 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endosulfan II | 0.00048 | U | 0.0098 | 0.00048 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endosulfan sulfate | 0.0015 | U | 0.0098 | 0.0015 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endrin | 0.00045 | U | 0.0098 | 0.00045 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endrin aldehyde | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Endrin ketone | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Heptachlor | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Heptachlor epoxide | 0.00057 | U | 0.0098 | 0.00057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Methoxychlor | 0.0017 | U | 0.0098 | 0.0017 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Toxaphene | 0.098 | U | 0.57 | 0.098 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:01 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 85 | | 47 - 148 | 01/21/14 11:39 | 01/24/14 19:01 | 10 |
| Tetrachloro-m-xylene | 74 | | 65 - 134 | 01/21/14 11:39 | 01/24/14 19:01 | 10 |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0025 | U | 0.0098 | 0.0025 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| PCB-1221 | 0.0086 | U | 0.0098 | 0.0086 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| PCB-1232 | 0.0092 | U | 0.0098 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| PCB-1242 | 0.0057 | U | 0.0098 | 0.0057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| PCB-1248 | 0.0019 | U | 0.0098 | 0.0019 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| PCB-1254 | 0.0032 | U | 0.0098 | 0.0032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| **PCB-1260** | **0.039** | | 0.0098 | 0.0035 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 17:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 71 | | 30 - 150 | 01/21/14 11:39 | 01/24/14 17:15 | 1 |
| Tetrachloro-m-xylene | 106 | | 43 - 142 | 01/21/14 11:39 | 01/24/14 17:15 | 1 |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.025 | U | 0.46 | 0.025 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| 2,4-DB | 0.016 | U | 0.034 | 0.016 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| 2,4,5-T | 0.0078 | U | 0.091 | 0.0078 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-04

**Date Collected: 01/15/14 15:45**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-4

**Matrix: Solid**
**Percent Solids: 86.3**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | 0.039 | U | 0.091 | 0.039 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| Dalapon | 0.16 | U | 2.7 | 0.16 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| Dicamba | 0.0027 | U | 0.14 | 0.0027 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| Dichlorprop | 0.0075 | U | 0.30 | 0.0075 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| Dinoseb | 0.0098 | U | 0.46 | 0.0098 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| MCPA | 2.0 | U | 110 | 2.0 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |
| MCPP | 0.91 | U | 110 | 0.91 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 19:44 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *58* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 19:44* | *2* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.21 | U | 0.53 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Arsenic** | **2.1** | | 0.53 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Barium** | **72** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Cadmium** | **0.25** | **I** | 0.53 | 0.11 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Chromium** | **30** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Lead** | **15** | | 0.53 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |
| **Selenium** | **0.82** | **I V** | 1.1 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:02 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.059** | | 0.018 | 0.011 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:30 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-05

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-5

**Matrix: Solid**
**Percent Solids: 90.3**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0073 | U | 0.036 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Chlorpyrifos | 0.0082 | U | 0.036 | 0.0082 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Coumaphos | 0.014 | U | 0.36 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 22:28 | 1 |
| Diazinon | 0.016 | U | 0.073 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Dichlorvos | 0.0076 | U | 0.073 | 0.0076 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Disulfoton | 0.0068 | U | 0.073 | 0.0068 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Ethoprop | 0.012 | U | 0.036 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Fensulfothion | 0.012 | U | 0.36 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Fenthion | 0.0083 | U | 0.036 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Methyl parathion | 0.0083 | U | 0.036 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Mevinphos | 0.014 | U | 0.073 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Phorate | 0.011 | U | 0.036 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Ronnel | 0.0081 | U | 0.036 | 0.0081 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Stirophos | 0.020 | U | 0.036 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Terbutryn | 0.0091 | U | 0.036 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Tokuthion | 0.023 | U | 0.036 | 0.023 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Dimethoate | 0.0090 | U | 0.073 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| EPN | 0.0089 | U | 0.073 | 0.0089 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Ethyl Parathion | 0.0092 | U | 0.036 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Malathion | 0.0070 | U | 0.036 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Sulfotepp | 0.0073 | U | 0.036 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |
| Famphur | 0.0093 | U | 0.073 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 22:28 | 1 |
| Thionazin | 0.010 | U | 0.036 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *65* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 00:00* | *1* |
| *Triphenylphosphate* | *71* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 22:28* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Acenaphthylene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Anthracene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Benzo[a]anthracene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Benzo[a]pyrene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Benzo[b]fluoranthene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Benzo[g,h,i]perylene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Benzo[k]fluoranthene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Chrysene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Dibenz(a,h)anthracene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Fluoranthene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Fluorene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Naphthalene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Phenanthrene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Pyrene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| 1-Methylnaphthalene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| 2-Methylnaphthalene | 0.011 | U | 0.36 | 0.011 | mg/Kg | ☼ | 01/20/14 08:55 | 01/21/14 22:14 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-05

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-5

**Matrix: Solid**
**Percent Solids: 90.3**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 68 | | 44 - 108 | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Nitrobenzene-d5 (Surr) | 77 | | 27 - 114 | 01/20/14 08:55 | 01/21/14 22:14 | 1 |
| Terphenyl-d14 (Surr) | 76 | | 36 - 134 | 01/20/14 08:55 | 01/21/14 22:14 | 1 |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| alpha-BHC | 0.000045 | U | 0.00094 | 0.000045 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| beta-BHC | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| delta-BHC | 0.000039 | U | 0.00094 | 0.000039 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| alpha-Chlordane | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| gamma-Chlordane | 0.000054 | U | 0.00094 | 0.000054 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| 4,4'-DDD | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| 4,4'-DDE | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| 4,4'-DDT | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Dieldrin | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endosulfan I | 0.000088 | U | 0.00094 | 0.000088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endosulfan II | 0.000046 | U | 0.00094 | 0.000046 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endosulfan sulfate | 0.00014 | U | 0.00094 | 0.00014 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endrin | 0.000043 | U | 0.00094 | 0.000043 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endrin aldehyde | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Endrin ketone | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Heptachlor | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Heptachlor epoxide | 0.000055 | U | 0.00094 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Methoxychlor | 0.00016 | U | 0.00094 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Toxaphene | 0.0094 | U | 0.055 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 16:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 107 | | 47 - 148 | 01/21/14 11:39 | 01/24/14 16:54 | 1 |
| Tetrachloro-m-xylene | 103 | | 65 - 134 | 01/21/14 11:39 | 01/24/14 16:54 | 1 |

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.0094 | 0.0024 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1221 | 0.0083 | U | 0.0094 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1232 | 0.0088 | U | 0.0094 | 0.0088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1242 | 0.0055 | U | 0.0094 | 0.0055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1248 | 0.0018 | U | 0.0094 | 0.0018 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1254 | 0.0031 | U | 0.0094 | 0.0031 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| PCB-1260 | 0.0034 | U | 0.0094 | 0.0034 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 15:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 76 | | 30 - 150 | 01/21/14 11:39 | 01/24/14 15:35 | 1 |
| Tetrachloro-m-xylene | 108 | | 43 - 142 | 01/21/14 11:39 | 01/24/14 15:35 | 1 |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.024 | U | 0.44 | 0.024 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| 2,4-DB | 0.015 | U | 0.033 | 0.015 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| 2,4,5-T | 0.0074 | U | 0.088 | 0.0074 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-05

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-5

**Matrix: Solid**
**Percent Solids: 90.3**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | 0.037 | U | 0.088 | 0.037 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| Dalapon | 0.16 | U | 2.6 | 0.16 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| Dicamba | 0.0026 | U | 0.13 | 0.0026 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| Dichlorprop | 0.0072 | U | 0.28 | 0.0072 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| Dinoseb | 0.0094 | U | 0.44 | 0.0094 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| MCPA | 1.9 | U | 110 | 1.9 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |
| MCPP | 0.88 | U | 110 | 0.88 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 20:08 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *73* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 20:08* | *2* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.21 | U | 0.53 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| **Arsenic** | **0.70** | | 0.53 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| **Barium** | **51** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| Cadmium | 0.11 | U | 0.53 | 0.11 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| **Chromium** | **14** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| **Lead** | **5.6** | | 0.53 | 0.21 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |
| **Selenium** | **0.49** | **I V** | 1.1 | 0.42 | mg/Kg | ☼ | 01/19/14 14:00 | 01/20/14 16:06 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.021** | | 0.017 | 0.010 | mg/Kg | ☼ | 01/21/14 09:03 | 01/22/14 12:32 | 1 |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1



## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| V | Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-01

**Lab Sample ID: 400-85526-1**

**Date Collected: 01/15/14 14:20**
**Matrix: Solid**
**Date Received: 01/17/14 09:05**
**Percent Solids: 90.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 12:00 | KJA | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/30/14 21:47 | AJR | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 20:15 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 18:30 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 16:00 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 17:26 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:52 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:25 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

## Client Sample ID: 07-SS-02

**Lab Sample ID: 400-85526-2**

**Date Collected: 01/15/14 15:00**
**Matrix: Solid**
**Date Received: 01/17/14 09:05**
**Percent Solids: 67.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 12:34 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/30/14 22:21 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 20:48 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 2 | 205585 | 01/23/14 18:57 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 16:25 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 5 | 205926 | 01/24/14 17:57 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:55 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:27 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-03

**Lab Sample ID: 400-85526-3**
**Date Collected: 01/15/14 15:20**
**Matrix: Solid**
**Date Received: 01/17/14 09:05**
**Percent Solids: 78.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 13:07 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 02/01/14 02:20 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 2 | 205585 | 01/23/14 19:20 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 16:50 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 5 | 205926 | 01/24/14 18:29 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 15:59 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:29 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

## Client Sample ID: 07-SS-04

**Lab Sample ID: 400-85526-4**
**Date Collected: 01/15/14 15:45**
**Matrix: Solid**
**Date Received: 01/17/14 09:05**
**Percent Solids: 86.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 2 | 205357 | 01/23/14 13:40 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/30/14 23:27 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 21:55 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 2 | 205585 | 01/23/14 19:44 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 17:15 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 10 | 205926 | 01/24/14 19:01 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 16:02 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:30 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Client Sample ID: 07-SS-05

**Date Collected: 01/15/14 14:20**
**Date Received: 01/17/14 09:05**

## Lab Sample ID: 400-85526-5

**Matrix: Solid**
**Percent Solids: 90.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 205024 | 01/20/14 08:55 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 1 | 205079 | 01/21/14 22:14 | KJA | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 00:00 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 22:28 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 2 | 205585 | 01/23/14 20:08 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8082A | | 1 | 205862 | 01/24/14 15:35 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 16:54 | VC1 | TAL PEN |
| Total/NA | Prep | 3050B | | | 204983 | 01/19/14 14:00 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 205127 | 01/20/14 16:06 | SLM | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 09:03 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:32 | JAP | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205246 | 01/21/14 16:30 | LEC | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## GC/MS Semi VOA

### Prep Batch: 205024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 3550C | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 3550C | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 3550C | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 3550C | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 3550C | |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 205076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85339-A-1-I MS | Matrix Spike | Total/NA | Solid | 8270D | 205024 |
| 400-85339-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 8270D | 205024 |
| LCS 400-205024/20-A | Lab Control Sample | Total/NA | Solid | 8270D | 205024 |
| MB 400-205024/21-A | Method Blank | Total/NA | Solid | 8270D | 205024 |

### Analysis Batch: 205079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8270D | 205024 |

### Prep Batch: 205180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 3550B | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 3550B | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 3550B | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 3550B | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 3550B | |
| 400-85591-B-6-E MS | Matrix Spike | Total/NA | Solid | 3550B | |
| 400-85591-B-6-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550B | |
| LCS 400-205180/13-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 205357

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8270D | 205024 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8270D | 205024 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8270D | 205024 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8270D | 205024 |

### Analysis Batch: 205698

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-B-6-E MS | Matrix Spike | Total/NA | Solid | 8141A | 205180 |
| 400-85591-B-6-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8141A | 205180 |
| LCS 400-205180/13-A | Lab Control Sample | Total/NA | Solid | 8141A | 205180 |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 8141A | 205180 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 206210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8141A | 205180 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8141A | 205180 |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 8141A | 205180 |

## GC Semi VOA

### Prep Batch: 205142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8151A | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8151A | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8151A | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8151A | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8151A | |
| 400-85591-B-6-B MS | Matrix Spike | Total/NA | Solid | 8151A | |
| 400-85591-B-6-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8151A | |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | |

### Prep Batch: 205185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 3550C | |
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 3550C | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 3550C | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 3550C | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 3550C | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 3550C | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 3550C | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 3550C | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 3550C | |
| 400-85526-5 MS | 07-SS-05 | Total/NA | Solid | 3550C | |
| 400-85526-5 MS | 07-SS-05 | Total/NA | Solid | 3550C | |
| 400-85526-5 MSD | 07-SS-05 | Total/NA | Solid | 3550C | |
| 400-85526-5 MSD | 07-SS-05 | Total/NA | Solid | 3550C | |
| LCS 400-205185/23-B | Lab Control Sample | Total/NA | Solid | 3550B | |
| LCS 400-205185/24-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 205583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-B-6-B MS | Matrix Spike | Total/NA | Solid | 8151A | 205142 |
| 400-85591-B-6-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8151A | 205142 |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | 205142 |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | 205142 |

### Analysis Batch: 205585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8151A | 205142 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## GC Semi VOA (Continued)

### Analysis Batch: 205585 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8151A | 205142 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8151A | 205142 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8151A | 205142 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8151A | 205142 |

### Analysis Batch: 205862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-5 MS | 07-SS-05 | Total/NA | Solid | 8082A | 205185 |
| 400-85526-5 MSD | 07-SS-05 | Total/NA | Solid | 8082A | 205185 |
| LCS 400-205185/24-A | Lab Control Sample | Total/NA | Solid | 8082A | 205185 |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 8082A | 205185 |

### Analysis Batch: 205926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-5 MS | 07-SS-05 | Total/NA | Solid | 8081B | 205185 |
| 400-85526-5 MSD | 07-SS-05 | Total/NA | Solid | 8081B | 205185 |
| LCS 400-205185/23-B | Lab Control Sample | Total/NA | Solid | 8081B | 205185 |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 8081B | 205185 |

## Metals

### Prep Batch: 204983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 3050B | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 3050B | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 3050B | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 3050B | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 3050B | |
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 3050B | |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 205127

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 6010C | 204983 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 6010C | 204983 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 6010C | 204983 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 6010C | 204983 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 6010C | 204983 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Metals (Continued)

### Analysis Batch: 205127 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85567-A-2-B MS | Matrix Spike | Total/NA | Solid | 6010C | 204983 |
| 400-85567-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 6010C | 204983 |
| LCS 400-204983/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 204983 |
| MB 400-204983/1-A | Method Blank | Total/NA | Solid | 6010C | 204983 |

### Prep Batch: 205147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | |
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 7471B | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 7471B | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 7471B | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 7471B | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 7471B | |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | |

### Analysis Batch: 205374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | 205147 |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | 205147 |
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | 7471B | 205147 |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | 7471B | 205147 |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | 7471B | 205147 |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | 7471B | 205147 |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | 205147 |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | 205147 |

## General Chemistry

### Analysis Batch: 205246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-1 | 07-SS-01 | Total/NA | Solid | Moisture | |
| 400-85526-2 | 07-SS-02 | Total/NA | Solid | Moisture | |
| 400-85526-3 | 07-SS-03 | Total/NA | Solid | Moisture | |
| 400-85526-4 | 07-SS-04 | Total/NA | Solid | Moisture | |
| 400-85526-5 | 07-SS-05 | Total/NA | Solid | Moisture | |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS)

**Lab Sample ID: MB 400-205180/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Chlorpyrifos | 0.0075 | U | 0.033 | 0.0075 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Diazinon | 0.015 | U | 0.066 | 0.015 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Dichlorvos | 0.0069 | U | 0.066 | 0.0069 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Disulfoton | 0.0062 | U | 0.066 | 0.0062 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ethoprop | 0.011 | U | 0.033 | 0.011 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Fensulfothion | 0.011 | U | 0.33 | 0.011 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Fenthion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Methyl parathion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Mevinphos | 0.013 | U | 0.066 | 0.013 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Phorate | 0.010 | U | 0.033 | 0.010 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ronnel | 0.0074 | U | 0.033 | 0.0074 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Stirophos | 0.018 | U | 0.033 | 0.018 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Terbutryn | 0.0083 | U | 0.033 | 0.0083 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Tokuthion | 0.021 | U | 0.033 | 0.021 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Dimethoate | 0.0082 | U | 0.066 | 0.0082 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| EPN | 0.0081 | U | 0.066 | 0.0081 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ethyl Parathion | 0.0084 | U | 0.033 | 0.0084 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Malathion | 0.0064 | U | 0.033 | 0.0064 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Sulfotepp | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Thionazin | 0.0092 | U | 0.033 | 0.0092 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *83* | | *30 - 164* | *01/21/14 11:27* | *01/30/14 19:35* | *1* |

**Lab Sample ID: MB 400-205180/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206210** — **Prep Batch: 205180**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Coumaphos | 0.013 | U | 0.33 | 0.013 | mg/Kg | | 01/21/14 11:27 | 01/31/14 19:42 | 1 |
| Famphur | 0.0085 | U | 0.066 | 0.0085 | mg/Kg | | 01/21/14 11:27 | 01/31/14 19:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *88* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 19:42* | *1* |

**Lab Sample ID: LCS 400-205180/13-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bolstar | 0.166 | 0.142 | | mg/Kg | | 85 | 40 - 156 |
| Chlorpyrifos | 0.166 | 0.154 | | mg/Kg | | 93 | 22 - 130 |
| Coumaphos | 0.166 | 0.112 | I | mg/Kg | | 67 | 51 - 147 |
| Diazinon | 0.166 | 0.137 | | mg/Kg | | 83 | 41 - 130 |
| Dichlorvos | 0.166 | 0.193 | | mg/Kg | | 116 | 10 - 130 |
| Disulfoton | 0.166 | 0.131 | | mg/Kg | | 79 | 10 - 134 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: LCS 400-205180/13-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ethoprop | 0.166 | 0.156 | | mg/Kg | | 94 | 30 - 130 |
| Fensulfothion | 0.166 | 0.119 | I | mg/Kg | | 72 | 43 - 145 |
| Fenthion | 0.166 | 0.152 | | mg/Kg | | 91 | 10 - 130 |
| Methyl parathion | 0.166 | 0.123 | | mg/Kg | | 74 | 36 - 149 |
| Mevinphos | 0.166 | 0.134 | | mg/Kg | | 81 | 30 - 130 |
| Phorate | 0.166 | 0.140 | | mg/Kg | | 84 | 36 - 130 |
| Ronnel | 0.166 | 0.147 | | mg/Kg | | 88 | 30 - 130 |
| Stirophos | 0.166 | 0.124 | | mg/Kg | | 75 | 36 - 130 |
| Terbutryn | 0.166 | 0.170 | | mg/Kg | | 102 | 30 - 130 |
| Tokuthion | 0.166 | 0.152 | | mg/Kg | | 92 | 14 - 130 |
| Dimethoate | 0.166 | 0.156 | | mg/Kg | | 94 | 38 - 130 |
| EPN | 0.166 | 0.151 | | mg/Kg | | 91 | 48 - 124 |
| Ethyl Parathion | 0.166 | 0.185 | | mg/Kg | | 111 | 24 - 151 |
| Malathion | 0.166 | 0.180 | | mg/Kg | | 108 | 10 - 141 |
| Sulfotepp | 0.166 | 0.152 | | mg/Kg | | 92 | 13 - 171 |
| Famphur | 0.166 | 0.133 | | mg/Kg | | 80 | 10 - 130 |
| Thionazin | 0.167 | 0.175 | | mg/Kg | | 105 | 10 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *105* | | *30 - 164* |

**Lab Sample ID: 400-85591-B-6-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | U | 0.187 | 0.146 | | mg/Kg | ☼ | 78 | 40 - 156 |
| Chlorpyrifos | 0.0085 | U | 0.187 | 0.129 | | mg/Kg | ☼ | 69 | 22 - 130 |
| Coumaphos | 0.015 | U | 0.187 | 0.146 | I | mg/Kg | ☼ | 78 | 51 - 147 |
| Diazinon | 0.017 | U | 0.187 | 0.150 | | mg/Kg | ☼ | 80 | 41 - 130 |
| Dichlorvos | 0.0078 | U | 0.187 | 0.213 | | mg/Kg | ☼ | 114 | 10 - 130 |
| Disulfoton | 0.0070 | U | 0.187 | 0.113 | | mg/Kg | ☼ | 61 | 10 - 134 |
| Ethoprop | 0.012 | U | 0.187 | 0.178 | | mg/Kg | ☼ | 95 | 30 - 130 |
| Fensulfothion | 0.012 | U | 0.187 | 0.126 | I | mg/Kg | ☼ | 68 | 43 - 145 |
| Fenthion | 0.0086 | U | 0.187 | 0.253 | J3 | mg/Kg | ☼ | 135 | 10 - 128 |
| Methyl parathion | 0.0086 | U | 0.187 | 0.153 | | mg/Kg | ☼ | 82 | 36 - 149 |
| Mevinphos | 0.015 | U | 0.187 | 0.151 | | mg/Kg | ☼ | 81 | 30 - 130 |
| Phorate | 0.011 | U | 0.187 | 0.153 | | mg/Kg | ☼ | 82 | 36 - 130 |
| Ronnel | 0.0083 | U | 0.187 | 0.188 | | mg/Kg | ☼ | 100 | 30 - 130 |
| Stirophos | 0.020 | U | 0.187 | 0.267 | J3 | mg/Kg | ☼ | 143 | 36 - 126 |
| Terbutryn | 0.0094 | U | 0.187 | 0.0093 | U J3 | mg/Kg | ☼ | 0 | 30 - 130 |
| Tokuthion | 0.024 | U | 0.187 | 0.352 | J3 | mg/Kg | ☼ | 188 | 14 - 130 |
| Dimethoate | 0.0092 | U | 0.187 | 0.194 | | mg/Kg | ☼ | 104 | 38 - 130 |
| EPN | 0.0091 | U | 0.187 | 0.142 | | mg/Kg | ☼ | 76 | 48 - 124 |
| Ethyl Parathion | 0.0095 | U | 0.187 | 0.257 | | mg/Kg | ☼ | 137 | 24 - 151 |
| Malathion | 0.14 | | 0.187 | 0.204 | | mg/Kg | ☼ | 34 | 10 - 141 |
| Sulfotepp | 0.0074 | U | 0.187 | 0.127 | | mg/Kg | ☼ | 68 | 13 - 171 |
| Famphur | 0.0096 | U | 0.187 | 0.109 | | mg/Kg | ☼ | 58 | 10 - 130 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: 400-85591-B-6-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Thionazin | 0.010 | U | 0.188 | 0.181 | | mg/Kg | ☼ | 96 | 10 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *128* | | *30 - 164* |

**Lab Sample ID: 400-85591-B-6-F MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | U | 0.187 | 0.138 | | mg/Kg | ☼ | 74 | 40 - 156 | 5 | 40 |
| Chlorpyrifos | 0.0085 | U | 0.187 | 0.0084 | U J3 | mg/Kg | ☼ | 0 | 22 - 130 | NC | 40 |
| Coumaphos | 0.015 | U | 0.187 | 0.130 | I | mg/Kg | ☼ | 69 | 51 - 147 | 12 | 40 |
| Diazinon | 0.017 | U | 0.187 | 0.136 | | mg/Kg | ☼ | 73 | 41 - 130 | 9 | 30 |
| Dichlorvos | 0.0078 | U | 0.187 | 0.196 | | mg/Kg | ☼ | 105 | 10 - 130 | 8 | 40 |
| Disulfoton | 0.0070 | U | 0.187 | 0.112 | | mg/Kg | ☼ | 60 | 10 - 134 | 1 | 93 |
| Ethoprop | 0.012 | U | 0.187 | 0.152 | | mg/Kg | ☼ | 81 | 30 - 130 | 16 | 40 |
| Fensulfothion | 0.012 | U | 0.187 | 0.147 | I | mg/Kg | ☼ | 79 | 43 - 145 | 15 | 40 |
| Fenthion | 0.0086 | U | 0.187 | 0.277 | J3 | mg/Kg | ☼ | 148 | 10 - 128 | 9 | 60 |
| Methyl parathion | 0.0086 | U | 0.187 | 0.267 | J3 | mg/Kg | ☼ | 143 | 36 - 149 | 54 | 40 |
| Mevinphos | 0.015 | U | 0.187 | 0.127 | | mg/Kg | ☼ | 68 | 30 - 130 | 17 | 40 |
| Phorate | 0.011 | U | 0.187 | 0.129 | | mg/Kg | ☼ | 69 | 36 - 130 | 17 | 40 |
| Ronnel | 0.0083 | U | 0.187 | 0.205 | | mg/Kg | ☼ | 110 | 30 - 130 | 9 | 40 |
| Stirophos | 0.020 | U | 0.187 | 0.107 | J3 | mg/Kg | ☼ | 57 | 36 - 126 | 86 | 40 |
| Terbutryn | 0.0094 | U | 0.187 | 0.0093 | U J3 | mg/Kg | ☼ | 0 | 30 - 130 | NC | 40 |
| Tokuthion | 0.024 | U | 0.187 | 0.429 | J3 | mg/Kg | ☼ | 229 | 14 - 130 | 20 | 40 |
| Dimethoate | 0.0092 | U | 0.187 | 0.170 | | mg/Kg | ☼ | 91 | 38 - 130 | 13 | 40 |
| EPN | 0.0091 | U | 0.187 | 0.139 | | mg/Kg | ☼ | 74 | 48 - 124 | 3 | 30 |
| Ethyl Parathion | 0.0095 | U | 0.187 | 0.226 | | mg/Kg | ☼ | 121 | 24 - 151 | 13 | 79 |
| Malathion | 0.14 | | 0.187 | 0.270 | | mg/Kg | ☼ | 70 | 10 - 141 | 28 | 40 |
| Sulfotepp | 0.0074 | U | 0.187 | 0.115 | | mg/Kg | ☼ | 62 | 13 - 171 | 10 | 65 |
| Famphur | 0.0096 | U | 0.187 | 0.110 | | mg/Kg | ☼ | 59 | 10 - 130 | 1 | 60 |
| Thionazin | 0.010 | U | 0.188 | 0.155 | | mg/Kg | ☼ | 82 | 10 - 130 | 16 | 60 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *118* | | *30 - 164* |

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

**Lab Sample ID: MB 400-205024/21-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Acenaphthylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

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

**Lab Sample ID: MB 400-205024/21-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[a]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[b]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[g,h,i]perylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Benzo[k]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Chrysene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Dibenz(a,h)anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Fluorene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Naphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Phenanthrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| Pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 1-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |
| 2-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/20/14 08:55 | 01/21/14 16:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *44 - 108* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *36 - 134* | *01/20/14 08:55* | *01/21/14 16:43* | *1* |

**Lab Sample ID: LCS 400-205024/20-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.40 | | mg/Kg | | 84 | 62 - 120 |
| Acenaphthylene | 1.67 | 1.32 | | mg/Kg | | 79 | 61 - 120 |
| Anthracene | 1.67 | 1.41 | | mg/Kg | | 85 | 68 - 120 |
| Benzo[a]anthracene | 1.67 | 1.55 | | mg/Kg | | 93 | 67 - 120 |
| Benzo[a]pyrene | 1.67 | 1.59 | | mg/Kg | | 95 | 64 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.48 | | mg/Kg | | 89 | 58 - 121 |
| Benzo[g,h,i]perylene | 1.67 | 1.50 | | mg/Kg | | 90 | 49 - 151 |
| Benzo[k]fluoranthene | 1.67 | 1.50 | | mg/Kg | | 90 | 61 - 123 |
| Chrysene | 1.67 | 1.53 | | mg/Kg | | 92 | 65 - 120 |
| Dibenz(a,h)anthracene | 1.67 | 1.61 | | mg/Kg | | 97 | 58 - 130 |
| Fluoranthene | 1.67 | 1.53 | | mg/Kg | | 92 | 67 - 123 |
| Fluorene | 1.67 | 1.50 | | mg/Kg | | 90 | 64 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.55 | | mg/Kg | | 93 | 55 - 133 |
| Naphthalene | 1.67 | 1.36 | | mg/Kg | | 82 | 59 - 120 |
| Phenanthrene | 1.67 | 1.42 | | mg/Kg | | 85 | 62 - 130 |
| Pyrene | 1.67 | 1.37 | | mg/Kg | | 82 | 57 - 127 |
| 1-Methylnaphthalene | 1.67 | 1.44 | | mg/Kg | | 86 | 66 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.42 | | mg/Kg | | 85 | 64 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *84* | | *44 - 108* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

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

**Lab Sample ID: LCS 400-205024/20-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5 (Surr)* | *80* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *88* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-I MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.19 | 1.78 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Acenaphthylene | 0.030 | I | 2.19 | 1.69 | | mg/Kg | ☼ | 76 | 10 - 150 |
| Anthracene | 0.061 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 81 | 10 - 150 |
| Benzo[a]anthracene | 0.36 | I | 2.19 | 2.35 | | mg/Kg | ☼ | 91 | 10 - 150 |
| Benzo[a]pyrene | 0.38 | I | 2.19 | 2.23 | | mg/Kg | ☼ | 84 | 10 - 150 |
| Benzo[b]fluoranthene | 0.57 | | 2.19 | 2.31 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.19 | 1.36 | | mg/Kg | ☼ | 56 | 10 - 150 |
| Benzo[k]fluoranthene | 0.21 | I | 2.19 | 2.09 | | mg/Kg | ☼ | 86 | 10 - 150 |
| Chrysene | 0.49 | | 2.19 | 2.35 | | mg/Kg | ☼ | 85 | 10 - 150 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.19 | 1.57 | | mg/Kg | ☼ | 72 | 32 - 111 |
| Fluoranthene | 0.64 | | 2.19 | 2.39 | | mg/Kg | ☼ | 80 | 10 - 150 |
| Fluorene | 0.019 | I | 2.19 | 1.96 | | mg/Kg | ☼ | 89 | 10 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.19 | 1.59 | | mg/Kg | ☼ | 66 | 10 - 150 |
| Naphthalene | 0.031 | I | 2.19 | 1.65 | | mg/Kg | ☼ | 74 | 10 - 150 |
| Phenanthrene | 0.41 | I | 2.19 | 2.21 | | mg/Kg | ☼ | 82 | 10 - 150 |
| Pyrene | 0.47 | | 2.19 | 2.20 | | mg/Kg | ☼ | 79 | 10 - 150 |
| 1-Methylnaphthalene | 0.038 | I | 2.19 | 1.84 | | mg/Kg | ☼ | 82 | 10 - 150 |
| 2-Methylnaphthalene | 0.044 | I | 2.19 | 1.74 | | mg/Kg | ☼ | 77 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *82* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *82* | | *36 - 134* |

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.013 | U | 2.21 | 1.81 | | mg/Kg | ☼ | 82 | 10 - 150 | 2 | 36 |
| Acenaphthylene | 0.030 | I | 2.21 | 1.79 | | mg/Kg | ☼ | 80 | 10 - 150 | 6 | 29 |
| Anthracene | 0.061 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 87 | 10 - 150 | 8 | 30 |
| Benzo[a]anthracene | 0.36 | I | 2.21 | 2.52 | | mg/Kg | ☼ | 98 | 10 - 150 | 7 | 33 |
| Benzo[a]pyrene | 0.38 | I | 2.21 | 2.46 | | mg/Kg | ☼ | 94 | 10 - 150 | 10 | 30 |
| Benzo[b]fluoranthene | 0.57 | | 2.21 | 2.68 | | mg/Kg | ☼ | 96 | 10 - 150 | 15 | 31 |
| Benzo[g,h,i]perylene | 0.12 | I | 2.21 | 1.43 | | mg/Kg | ☼ | 59 | 10 - 150 | 5 | 30 |
| Benzo[k]fluoranthene | 0.21 | I | 2.21 | 2.20 | | mg/Kg | ☼ | 90 | 10 - 150 | 5 | 29 |
| Chrysene | 0.49 | | 2.21 | 2.63 | | mg/Kg | ☼ | 97 | 10 - 150 | 11 | 33 |
| Dibenz(a,h)anthracene | 0.013 | U | 2.21 | 1.67 | | mg/Kg | ☼ | 75 | 32 - 111 | 6 | 30 |
| Fluoranthene | 0.64 | | 2.21 | 2.81 | | mg/Kg | ☼ | 98 | 10 - 150 | 16 | 42 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

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

**Lab Sample ID: 400-85339-A-1-J MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205076** — **Prep Batch: 205024**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | 0.019 | I | 2.21 | 2.03 | | mg/Kg | ☼ | 91 | 10 - 150 | 3 | 36 |
| Indeno[1,2,3-cd]pyrene | 0.13 | I | 2.21 | 1.64 | | mg/Kg | ☼ | 68 | 10 - 150 | 3 | 31 |
| Naphthalene | 0.031 | I | 2.21 | 1.80 | | mg/Kg | ☼ | 80 | 10 - 150 | 9 | 33 |
| Phenanthrene | 0.41 | I | 2.21 | 2.48 | | mg/Kg | ☼ | 94 | 10 - 150 | 11 | 34 |
| Pyrene | 0.47 | | 2.21 | 2.52 | | mg/Kg | ☼ | 93 | 10 - 150 | 14 | 45 |
| 1-Methylnaphthalene | 0.038 | I | 2.21 | 1.99 | | mg/Kg | ☼ | 88 | 10 - 150 | 8 | 29 |
| 2-Methylnaphthalene | 0.044 | I | 2.21 | 1.90 | | mg/Kg | ☼ | 84 | 10 - 150 | 9 | 32 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *83* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *87* | | *36 - 134* |

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| alpha-BHC | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| beta-BHC | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| delta-BHC | 0.000035 | U | 0.00085 | 0.000035 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| gamma-BHC (Lindane) | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| alpha-Chlordane | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| gamma-Chlordane | 0.000048 | U | 0.00085 | 0.000048 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDD | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDE | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDT | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Dieldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan I | 0.000080 | U | 0.00085 | 0.000080 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan II | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan sulfate | 0.00013 | U | 0.00085 | 0.00013 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endrin | 0.000039 | U | 0.00085 | 0.000039 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endrin aldehyde | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endrin ketone | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Heptachlor | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Heptachlor epoxide | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Methoxychlor | 0.00014 | U | 0.00085 | 0.00014 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Toxaphene | 0.0085 | U | 0.050 | 0.0085 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *129* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 14:48* | *1* |
| *Tetrachloro-m-xylene* | *128* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 14:48* | *1* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 400-205185/23-B** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aldrin | 0.0166 | 0.0148 | | mg/Kg | | 89 | 58 - 150 |
| alpha-BHC | 0.0166 | 0.0156 | | mg/Kg | | 94 | 58 - 150 |
| beta-BHC | 0.0166 | 0.0141 | | mg/Kg | | 85 | 57 - 150 |
| delta-BHC | 0.0166 | 0.0155 | | mg/Kg | | 93 | 57 - 150 |
| gamma-BHC (Lindane) | 0.0166 | 0.0152 | | mg/Kg | | 92 | 51 - 150 |
| alpha-Chlordane | 0.0166 | 0.0137 | | mg/Kg | | 82 | 61 - 150 |
| gamma-Chlordane | 0.0166 | 0.0144 | | mg/Kg | | 86 | 60 - 150 |
| 4,4'-DDD | 0.0166 | 0.0113 | | mg/Kg | | 68 | 56 - 150 |
| 4,4'-DDE | 0.0166 | 0.0150 | | mg/Kg | | 90 | 64 - 150 |
| 4,4'-DDT | 0.0166 | 0.0157 | | mg/Kg | | 94 | 52 - 150 |
| Dieldrin | 0.0166 | 0.0151 | | mg/Kg | | 90 | 66 - 150 |
| Endosulfan I | 0.0166 | 0.0121 | | mg/Kg | | 73 | 63 - 150 |
| Endosulfan II | 0.0166 | 0.0131 | | mg/Kg | | 79 | 61 - 150 |
| Endosulfan sulfate | 0.0166 | 0.0153 | | mg/Kg | | 92 | 55 - 150 |
| Endrin | 0.0166 | 0.0137 | | mg/Kg | | 82 | 65 - 150 |
| Endrin aldehyde | 0.0166 | 0.0140 | | mg/Kg | | 84 | 39 - 150 |
| Endrin ketone | 0.0166 | 0.0153 | | mg/Kg | | 92 | 53 - 150 |
| Heptachlor | 0.0166 | 0.0146 | | mg/Kg | | 88 | 58 - 150 |
| Heptachlor epoxide | 0.0166 | 0.0146 | | mg/Kg | | 87 | 64 - 150 |
| Methoxychlor | 0.0166 | 0.0153 | | mg/Kg | | 92 | 46 - 150 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *86* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *81* | | *65 - 134* |

**Lab Sample ID: 400-85526-5 MS** — **Client Sample ID: 07-SS-05**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.0183 | 0.0203 | | mg/Kg | ☼ | 111 | 47 - 135 |
| alpha-BHC | 0.000045 | U | 0.0183 | 0.0209 | | mg/Kg | ☼ | 114 | 61 - 126 |
| beta-BHC | 0.000055 | U | 0.0183 | 0.0177 | | mg/Kg | ☼ | 97 | 53 - 129 |
| delta-BHC | 0.000039 | U | 0.0183 | 0.0200 | | mg/Kg | ☼ | 109 | 59 - 138 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.0183 | 0.0204 | | mg/Kg | ☼ | 111 | 60 - 125 |
| alpha-Chlordane | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 104 | 10 - 150 |
| gamma-Chlordane | 0.000054 | U | 0.0183 | 0.0196 | | mg/Kg | ☼ | 107 | 10 - 150 |
| 4,4'-DDD | 0.000055 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 10 - 150 |
| 4,4'-DDE | 0.000055 | U | 0.0183 | 0.0209 | | mg/Kg | ☼ | 114 | 49 - 141 |
| 4,4'-DDT | 0.000055 | U | 0.0183 | 0.0224 | | mg/Kg | ☼ | 122 | 46 - 150 |
| Dieldrin | 0.000055 | U | 0.0183 | 0.0203 | | mg/Kg | ☼ | 111 | 10 - 150 |
| Endosulfan I | 0.000088 | U | 0.0183 | 0.0158 | | mg/Kg | ☼ | 86 | 10 - 150 |
| Endosulfan II | 0.000046 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 54 - 135 |
| Endosulfan sulfate | 0.00014 | U | 0.0183 | 0.0121 | | mg/Kg | ☼ | 66 | 54 - 144 |
| Endrin | 0.000043 | U | 0.0183 | 0.0188 | | mg/Kg | ☼ | 102 | 55 - 146 |
| Endrin aldehyde | 0.000055 | U | 0.0183 | 0.00676 | J3 | mg/Kg | ☼ | 37 | 50 - 150 |
| Endrin ketone | 0.000055 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 54 - 142 |
| Heptachlor | 0.000055 | U | 0.0183 | 0.0208 | | mg/Kg | ☼ | 114 | 10 - 150 |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 400-85526-5 MS** — **Client Sample ID: 07-SS-05**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Heptachlor epoxide | 0.000055 | U | 0.0183 | 0.0198 | | mg/Kg | ☼ | 108 | 62 - 134 |
| Methoxychlor | 0.00016 | U | 0.0183 | 0.0206 | | mg/Kg | ☼ | 112 | 50 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *102* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *99* | | *65 - 134* |

**Lab Sample ID: 400-85526-5 MSD** — **Client Sample ID: 07-SS-05**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.0183 | 0.0190 | | mg/Kg | ☼ | 104 | 47 - 135 | 7 | 66 |
| alpha-BHC | 0.000045 | U | 0.0183 | 0.0198 | | mg/Kg | ☼ | 108 | 61 - 126 | 5 | 19 |
| beta-BHC | 0.000055 | U | 0.0183 | 0.0168 | | mg/Kg | ☼ | 92 | 53 - 129 | 5 | 30 |
| delta-BHC | 0.000039 | U | 0.0183 | 0.0193 | | mg/Kg | ☼ | 105 | 59 - 138 | 3 | 31 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 105 | 60 - 125 | 7 | 25 |
| alpha-Chlordane | 0.000055 | U | 0.0183 | 0.0179 | | mg/Kg | ☼ | 98 | 10 - 150 | 6 | 42 |
| gamma-Chlordane | 0.000054 | U | 0.0183 | 0.0185 | | mg/Kg | ☼ | 101 | 10 - 150 | 6 | 46 |
| 4,4'-DDD | 0.000055 | U | 0.0183 | 0.0173 | | mg/Kg | ☼ | 94 | 10 - 150 | 4 | 106 |
| 4,4'-DDE | 0.000055 | U | 0.0183 | 0.0201 | | mg/Kg | ☼ | 110 | 49 - 141 | 4 | 55 |
| 4,4'-DDT | 0.000055 | U | 0.0183 | 0.0218 | | mg/Kg | ☼ | 119 | 46 - 150 | 3 | 39 |
| Dieldrin | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 104 | 10 - 150 | 6 | 38 |
| Endosulfan I | 0.000088 | U | 0.0183 | 0.0148 | | mg/Kg | ☼ | 81 | 10 - 150 | 7 | 62 |
| Endosulfan II | 0.000046 | U | 0.0183 | 0.0171 | | mg/Kg | ☼ | 93 | 54 - 135 | 5 | 30 |
| Endosulfan sulfate | 0.00014 | U | 0.0183 | 0.0112 | | mg/Kg | ☼ | 61 | 54 - 144 | 8 | 29 |
| Endrin | 0.000043 | U | 0.0183 | 0.0179 | | mg/Kg | ☼ | 98 | 55 - 146 | 5 | 30 |
| Endrin aldehyde | 0.000055 | U | 0.0183 | 0.00640 | J3 | mg/Kg | ☼ | 35 | 50 - 150 | 5 | 38 |
| Endrin ketone | 0.000055 | U | 0.0183 | 0.0160 | | mg/Kg | ☼ | 87 | 54 - 142 | 12 | 28 |
| Heptachlor | 0.000055 | U | 0.0183 | 0.0206 | | mg/Kg | ☼ | 113 | 10 - 150 | 1 | 33 |
| Heptachlor epoxide | 0.000055 | U | 0.0183 | 0.0186 | | mg/Kg | ☼ | 102 | 62 - 134 | 7 | 26 |
| Methoxychlor | 0.00016 | U | 0.0183 | 0.0199 | | mg/Kg | ☼ | 109 | 50 - 150 | 3 | 36 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *99* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *96* | | *65 - 134* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0022 | U | 0.0085 | 0.0022 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1221 | 0.0075 | U | 0.0085 | 0.0075 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1232 | 0.0080 | U | 0.0085 | 0.0080 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1242 | 0.0050 | U | 0.0085 | 0.0050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1248 | 0.0016 | U | 0.0085 | 0.0016 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1254 | 0.0028 | U | 0.0085 | 0.0028 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |
| PCB-1260 | 0.0030 | U | 0.0085 | 0.0030 | mg/Kg | | 01/21/14 11:39 | 01/24/14 13:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *73* | | *30 - 150* | *01/21/14 11:39* | *01/24/14 13:55* | *1* |
| *Tetrachloro-m-xylene* | *98* | | *43 - 142* | *01/21/14 11:39* | *01/24/14 13:55* | *1* |

**Lab Sample ID: LCS 400-205185/24-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.166 | 0.156 | | mg/Kg | | 94 | 54 - 126 |
| PCB-1260 | 0.166 | 0.144 | | mg/Kg | | 87 | 56 - 139 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *71* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *95* | | *43 - 142* |

**Lab Sample ID: 400-85526-5 MS** — **Client Sample ID: 07-SS-05**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.182 | 0.184 | | mg/Kg | ☼ | 101 | 15 - 150 |
| PCB-1260 | 0.0034 | U | 0.182 | 0.175 | | mg/Kg | ☼ | 96 | 21 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *75* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *113* | | *43 - 142* |

**Lab Sample ID: 400-85526-5 MSD** — **Client Sample ID: 07-SS-05**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205862** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.0024 | U | 0.184 | 0.186 | | mg/Kg | ☼ | 101 | 15 - 150 | 1 | 42 |
| PCB-1260 | 0.0034 | U | 0.184 | 0.183 | | mg/Kg | ☼ | 99 | 21 - 150 | 4 | 29 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *74* | | *30 - 150* |
| *Tetrachloro-m-xylene* | *106* | | *43 - 142* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 400-205142/18-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.011 | U | 0.20 | 0.011 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4-DB | 0.0070 | U | 0.015 | 0.0070 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4,5-T | 0.0034 | U | 0.040 | 0.0034 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Silvex (2,4,5-TP) | 0.017 | U | 0.040 | 0.017 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dalapon | 0.071 | U | 1.2 | 0.071 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dicamba | 0.0012 | U | 0.060 | 0.0012 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dichlorprop | 0.0033 | U | 0.13 | 0.0033 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dinoseb | 0.0043 | U | 0.20 | 0.0043 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPA | 0.87 | U | 50 | 0.87 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPP | 0.40 | U | 50 | 0.40 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *69* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 10:22* | *1* |

**Lab Sample ID: LCS 400-205142/17-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.166 | 0.127 | | mg/Kg | | 77 | 16 - 117 |
| 2,4,5-T | 0.0166 | 0.0139 | I | mg/Kg | | 84 | 40 - 105 |
| Silvex (2,4,5-TP) | 0.0166 | 0.017 | U | mg/Kg | | 91 | 34 - 97 |
| Dalapon | 0.416 | 0.343 | I | mg/Kg | | 82 | 10 - 115 |
| Dicamba | 0.0166 | 0.0224 | I | mg/Kg | | 135 | 10 - 141 |
| Dichlorprop | 0.166 | 0.156 | | mg/Kg | | 94 | 28 - 102 |
| Dinoseb | 0.0832 | 0.0488 | I | mg/Kg | | 59 | 10 - 71 |
| MCPA | 16.6 | 13.7 | I | mg/Kg | | 83 | 10 - 112 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *110* | | *10 - 150* |

**Lab Sample ID: 400-85591-B-6-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.187 | 0.0947 | | mg/Kg | ☼ | 51 | 10 - 88 |
| 2,4,5-T | 0.0038 | U | 0.0187 | 0.0115 | I | mg/Kg | ☼ | 62 | 10 - 107 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0187 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 |
| Dalapon | 0.080 | U | 0.467 | 0.258 | I | mg/Kg | ☼ | 55 | 10 - 126 |
| Dicamba | 0.0014 | U | 0.0187 | 0.0153 | I | mg/Kg | ☼ | 82 | 10 - 150 |
| Dichlorprop | 0.0037 | U | 0.187 | 0.138 | I | mg/Kg | ☼ | 74 | 10 - 81 |
| Dinoseb | 0.0048 | U | 0.0934 | 0.0529 | I | mg/Kg | ☼ | 57 | 10 - 64 |
| MCPA | 0.98 | U | 18.7 | 13.0 | I | mg/Kg | ☼ | 70 | 10 - 101 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *95* | | *10 - 150* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: 400-85591-B-6-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.188 | 0.0829 | | mg/Kg | ☼ | 44 | 10 - 88 | 13 | 109 |
| 2,4,5-T | 0.0038 | U | 0.0188 | 0.0108 | I | mg/Kg | ☼ | 57 | 10 - 107 | 7 | 121 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0188 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 | NC | 102 |
| Dalapon | 0.080 | U | 0.471 | 0.317 | I | mg/Kg | ☼ | 67 | 10 - 126 | 20 | 76 |
| Dicamba | 0.0014 | U | 0.0188 | 0.0163 | I | mg/Kg | ☼ | 87 | 10 - 150 | 7 | 159 |
| Dichlorprop | 0.0037 | U | 0.188 | 0.133 | I | mg/Kg | ☼ | 71 | 10 - 81 | 3 | 96 |
| Dinoseb | 0.0048 | U | 0.0942 | 0.0397 | I | mg/Kg | ☼ | 42 | 10 - 64 | 29 | 99 |
| MCPA | 0.98 | U | 18.8 | 16.3 | I | mg/Kg | ☼ | 86 | 10 - 101 | 23 | 134 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *80* | | *10 - 150* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-204983/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Arsenic | 0.38 | U | 0.48 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Barium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Cadmium | 0.096 | U | 0.48 | 0.096 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Chromium | 0.19 | U | 0.96 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Lead | 0.19 | U | 0.48 | 0.19 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |
| Selenium | 0.433 | I | 0.96 | 0.38 | mg/Kg | | 01/19/14 14:00 | 01/20/14 15:05 | 1 |

**Lab Sample ID: LCS 400-204983/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 44.3 | 39.1 | | mg/Kg | | 88 | 74 - 126 |
| Arsenic | 151 | 135 | | mg/Kg | | 89 | 81 - 120 |
| Barium | 262 | 238 | | mg/Kg | | 91 | 83 - 117 |
| Cadmium | 152 | 141 | | mg/Kg | | 93 | 82 - 118 |
| Chromium | 117 | 109 | | mg/Kg | | 93 | 79 - 121 |
| Lead | 254 | 252 | | mg/Kg | | 99 | 81 - 119 |
| Selenium | 162 | 139 | | mg/Kg | | 86 | 77 - 122 |

**Lab Sample ID: 400-85567-A-2-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 49.0 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |
| Arsenic | 7.1 | | 98.0 | 6.91 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Barium | 2.8 | | 98.0 | 2.49 | J3 | mg/Kg | ☼ | -0.3 | 75 - 125 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 400-85567-A-2-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.098 | U | 49.0 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 |
| Chromium | 6.9 | | 98.0 | 6.47 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 |
| Lead | 2.9 | | 98.0 | 2.71 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 |
| Selenium | 0.85 | I V | 98.0 | 0.999 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 |

**Lab Sample ID: 400-85567-A-2-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205127** — **Prep Batch: 204983**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.20 | U | 48.8 | 0.20 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Arsenic | 7.1 | | 97.6 | 6.27 | J3 | mg/Kg | ☼ | -0.8 | 75 - 125 | 10 | 20 |
| Barium | 2.8 | | 97.6 | 2.36 | J3 | mg/Kg | ☼ | -0.4 | 75 - 125 | 5 | 20 |
| Cadmium | 0.098 | U | 48.8 | 0.098 | U J3 | mg/Kg | ☼ | 0 | 75 - 125 | NC | 20 |
| Chromium | 6.9 | | 97.6 | 6.38 | J3 | mg/Kg | ☼ | -0.5 | 75 - 125 | 1 | 20 |
| Lead | 2.9 | | 97.6 | 2.73 | J3 | mg/Kg | ☼ | -0.2 | 75 - 125 | 1 | 20 |
| Selenium | 0.85 | I V | 97.6 | 1.01 | V J3 | mg/Kg | ☼ | 0.2 | 75 - 125 | 1 | 20 |

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 400-205147/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.023 | U | 0.039 | 0.023 | mg/Kg | | 01/21/14 09:03 | 01/22/14 11:57 | 1 |

**Lab Sample ID: LCS 400-205147/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 5.76 | 4.73 | | mg/Kg | | 82 | 80 - 120 |

**Lab Sample ID: 400-85522-A-1-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.183 | 0.188 | | mg/Kg | ☼ | 86 | 75 - 125 |

**Lab Sample ID: 400-85522-A-1-F MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.180 | 0.188 | | mg/Kg | ☼ | 88 | 75 - 125 | 0 | 20 |

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# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.7 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

400-85526 COC

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8270D - PAHs | 8082 - PCBs | 6010C/7471A-RCRA 8 | 8081A - OC Pests | 8141A-OP Pests | 8151A - Herbicides | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Preservation Code: | | | N | N | D | N | N | N | | | | | | | | |
| 07-SS-01 | 1/15/14 | 1420 | C | Solid | N | N | X | X | X | X | X | X | | | | | | | 1 | |
| 07-SS-02 | ↓ | 1500 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | 1 | |
| 07-SS-03 | ↓ | 1520 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | 1 | |
| 07-SS-04 | ↓ | 1545 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | 1 | |
| 07-SS-05 | ↓ | 1420 | ↓ | | ↓ | ↓ | X | | X | | | | | | | | | | | |

***Possible Hazard Identification***
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | | Method of Shipment: | |
|---|---|---|---|---|---|
| Relinquished by: John Barksdale | Date/Time: 1/16/14 0850 | Company | Received by: | Date/Time: 1-17-14 905 | Company TA-Pen |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.6°C IR-2

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85526-1

**Login Number: 85526**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Crawford, Lauren E**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.6°C IR-2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85526-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-15 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-85591-1
Client Project/Site: VIIS CANEEL BAY RESORT

For:
Barksdale & Associates
105 South G Street
Pensacola, Florida 32502

Attn: Mr. John Barksdale

*Authorized for release by:*
*2/4/2014 10:43:47 AM*

Cheyenne Whitmire, Project Manager II
(850)474-1001
cheyenne.whitmire@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Job ID: 400-85591-1

### Laboratory: TestAmerica Pensacola

**Narrative**

**Job Narrative**
**400-85591-1**

**GC/MS Semi VOA**
Method(s) 8141A: The continuing calibration verification (CCV) associated with batch 205698 recovered above the upper control limit for Dichlorvos. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 03-SS-01 (400-85591-1), 03-SS-02 (400-85591-2), 03-SS-03 (400-85591-3), 03-SS-04 (400-85591-4), 03-SS-05 (400-85591-5), 03-SS-06 (400-85591-6).

Method(s) 8270D: The laboratory control sample (LCS) for batch 205462 recovered outside control limits for the following analytes: Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following samples were diluted due to the dark viscous nature of the sample matrix: 02-SU-01 (400-85591-7), 02-SU-02 (400-85591-8), 02-SU-03 (400-85591-9). Elevated reporting limits (RL) are provided.

**HPLC**
Method(s) 9056: The following samples were diluted due to yellow color: 03-SS-01 (400-85591-1), 03-SS-02 (400-85591-2), 03-SS-03 (400-85591-3), 03-SS-04 (400-85591-4), 03-SS-05 (400-85591-5). Elevated reporting limits (RL) are provided.

**GC Semi VOA**
Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 205583 recovered above the upper control limit for Dalapon and 2,4-DB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 03-SS-01 (400-85591-1), 03-SS-06 (400-85591-6).

Method(s) 8151A: The laboratory control sample (LCS) for batch 205583 recovered outside control limits for the following analyte: 2,4,5-T. These analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 205585 recovered above the upper control limit for Dalapon. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 03-SS-02 (400-85591-2), 03-SS-03 (400-85591-3), 03-SS-04 (400-85591-4), 03-SS-05 (400-85591-5).

**Metals**
Method(s) 6010C: The low level check standard (CCVL) recovery associated with batch 206287 is outside the acceptance criteria for the following analyte: Pb. Because the target analyte result is greater than 5 times the reporting limit (RL), the continuing calibration verification (CCV, mid-range concentration) is referenced rather than the CCVL. The following sample is affected: 03-SS-01 (400-85591-1).

# Method Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8141A | Organophosphorous Pesticides (GC/MS) | SW846 | TAL PEN |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PEN |
| 8081B | Organochlorine Pesticides (GC) | SW846 | TAL PEN |
| 8151A | Herbicides (GC) | SW846 | TAL PEN |
| 9056 | Anions, Ion Chromatography | SW846 | TAL PEN |
| 6010C | Metals (ICP) | SW846 | TAL PEN |
| 7471B | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846 | TAL PEN |
| Moisture | Percent Moisture | EPA | TAL PEN |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Solid | 01/16/14 13:40 | 01/18/14 09:28 |
| 400-85591-2 | 03-SS-02 | Solid | 01/16/14 13:50 | 01/18/14 09:28 |
| 400-85591-3 | 03-SS-03 | Solid | 01/16/14 14:10 | 01/18/14 09:28 |
| 400-85591-4 | 03-SS-04 | Solid | 01/16/14 14:40 | 01/18/14 09:28 |
| 400-85591-5 | 03-SS-05 | Solid | 01/16/14 15:10 | 01/18/14 09:28 |
| 400-85591-6 | 03-SS-06 | Solid | 01/16/14 15:25 | 01/18/14 09:28 |
| 400-85591-7 | 02-SU-01 | Solid | 01/13/14 11:40 | 01/18/14 09:28 |
| 400-85591-8 | 02-SU-02 | Solid | 01/15/14 11:15 | 01/18/14 09:28 |
| 400-85591-9 | 02-SU-03 | Solid | 01/15/14 11:15 | 01/18/14 09:28 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-01

**Date Collected: 01/16/14 13:40**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-1

**Matrix: Solid**
**Percent Solids: 82.4**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0079 | U | 0.040 | 0.0079 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Chlorpyrifos | 0.0090 | U | 0.040 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Coumaphos | 0.016 | U | 0.40 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 23:01 | 1 |
| Diazinon | 0.018 | U | 0.079 | 0.018 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Dichlorvos | 0.0083 | U | 0.079 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Disulfoton | 0.0075 | U | 0.079 | 0.0075 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Ethoprop | 0.013 | U | 0.040 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Fensulfothion | 0.013 | U | 0.40 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Fenthion | 0.0091 | U | 0.040 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Methyl parathion | 0.0091 | U | 0.040 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Mevinphos | 0.016 | U | 0.079 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Phorate | 0.012 | U | 0.040 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Ronnel | 0.0089 | U | 0.040 | 0.0089 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Stirophos | 0.022 | U | 0.040 | 0.022 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Terbutryn | 0.010 | U | 0.040 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Tokuthion | 0.025 | U | 0.040 | 0.025 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Dimethoate | 0.0099 | U | 0.079 | 0.0099 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| EPN | 0.0097 | U | 0.079 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Ethyl Parathion | 0.010 | U | 0.040 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Malathion | 0.0077 | U | 0.040 | 0.0077 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Sulfotepp | 0.0079 | U | 0.040 | 0.0079 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |
| Famphur | 0.010 | U | 0.079 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 23:01 | 1 |
| Thionazin | 0.011 | U | 0.040 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 00:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *87* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 00:33* | *1* |
| *Triphenylphosphate* | *87* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 23:01* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| alpha-BHC | 0.000049 | U | 0.0010 | 0.000049 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| beta-BHC | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| delta-BHC | 0.000042 | U | 0.0010 | 0.000042 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| gamma-BHC (Lindane) | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| alpha-Chlordane | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| gamma-Chlordane | 0.000058 | U | 0.0010 | 0.000058 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| **4,4'-DDD** | **0.00013** | **I** | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| **4,4'-DDE** | **0.0037** | | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| **4,4'-DDT** | **0.0013** | | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Dieldrin | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Endosulfan I | 0.000096 | U | 0.0010 | 0.000096 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Endosulfan II | 0.000050 | U | 0.0010 | 0.000050 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Endosulfan sulfate | 0.00016 | U | 0.0010 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| **Endrin** | **0.00079** | **I** | 0.0010 | 0.000047 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Endrin aldehyde | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Endrin ketone | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Heptachlor | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Heptachlor epoxide | 0.000060 | U | 0.0010 | 0.000060 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |
| Methoxychlor | 0.00017 | U | 0.0010 | 0.00017 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-01

**Date Collected: 01/16/14 13:40**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-1

**Matrix: Solid**
**Percent Solids: 82.4**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.010 | U | 0.060 | 0.010 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 19:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *99* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 19:32* | *1* |
| *Tetrachloro-m-xylene* | *97* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 19:32* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.013 | U | 0.24 | 0.013 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| 2,4-DB | 0.0084 | U | 0.018 | 0.0084 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| 2,4,5-T | 0.0041 | U J3 | 0.048 | 0.0041 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| Silvex (2,4,5-TP) | 0.020 | U | 0.048 | 0.020 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| Dalapon | 0.086 | U | 1.4 | 0.086 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| Dicamba | 0.0014 | U | 0.072 | 0.0014 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| Dichlorprop | 0.0040 | U | 0.16 | 0.0040 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| Dinoseb | 0.0052 | U | 0.24 | 0.0052 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| MCPA | 1.0 | U | 60 | 1.0 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |
| MCPP | 0.48 | U | 60 | 0.48 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *79* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 12:57* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **15** | | 6.0 | 2.0 | mg/Kg | ☼ | | 01/21/14 22:08 | 5 |
| **Nitrite as N** | **15** | | 6.0 | 2.0 | mg/Kg | ☼ | | 01/21/14 22:08 | 5 |
| **Nitrate Nitrite as N** | **30** | | 6.0 | 2.0 | mg/Kg | ☼ | | 01/21/14 22:08 | 5 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.1** | | 0.57 | 0.46 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| **Barium** | **36** | | 1.1 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| **Cadmium** | **0.16** | **I** | 0.57 | 0.11 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| **Chromium** | **17** | | 1.1 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| **Lead** | **7.7** | | 0.57 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| **Selenium** | **1.6** | | 1.1 | 0.46 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |
| Silver | 0.23 | U | 0.57 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:25 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | U | 0.019 | 0.011 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:44 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-02

**Date Collected: 01/16/14 13:50**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-2

**Matrix: Solid**
**Percent Solids: 94.0**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0070 | U | 0.035 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Chlorpyrifos | 0.0079 | U | 0.035 | 0.0079 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Coumaphos | 0.014 | U | 0.35 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 23:34 | 1 |
| Diazinon | 0.016 | U | 0.070 | 0.016 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Dichlorvos | 0.0073 | U | 0.070 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Disulfoton | 0.0066 | U | 0.070 | 0.0066 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Ethoprop | 0.012 | U | 0.035 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Fensulfothion | 0.012 | U | 0.35 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Fenthion | 0.0081 | U | 0.035 | 0.0081 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Methyl parathion | 0.0081 | U | 0.035 | 0.0081 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Mevinphos | 0.014 | U | 0.070 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Phorate | 0.011 | U | 0.035 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Ronnel | 0.0078 | U | 0.035 | 0.0078 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Stirophos | 0.019 | U | 0.035 | 0.019 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Terbutryn | 0.0088 | U | 0.035 | 0.0088 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Tokuthion | 0.022 | U | 0.035 | 0.022 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Dimethoate | 0.0087 | U | 0.070 | 0.0087 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| EPN | 0.0086 | U | 0.070 | 0.0086 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Ethyl Parathion | 0.0089 | U | 0.035 | 0.0089 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| **Malathion** | **0.0090** | **I** | 0.035 | 0.0068 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Sulfotepp | 0.0070 | U | 0.035 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |
| Famphur | 0.0090 | U | 0.070 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 23:34 | 1 |
| Thionazin | 0.0098 | U | 0.035 | 0.0098 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *110* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 01:06* | *1* |
| *Triphenylphosphate* | *114* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 23:34* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aldrin** | **0.00019** | **I** | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| alpha-BHC | 0.000044 | U | 0.00090 | 0.000044 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| beta-BHC | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| delta-BHC | 0.000037 | U | 0.00090 | 0.000037 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| gamma-BHC (Lindane) | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| alpha-Chlordane | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| gamma-Chlordane | 0.000052 | U | 0.00090 | 0.000052 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **4,4'-DDD** | **0.0010** | | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **4,4'-DDE** | **0.022** | | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **4,4'-DDT** | **0.012** | | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **Dieldrin** | **0.0013** | | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **Endosulfan I** | **0.014** | | 0.00090 | 0.000085 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **Endosulfan II** | **0.017** | | 0.00090 | 0.000044 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| **Endosulfan sulfate** | **0.0097** | | 0.00090 | 0.00014 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Endrin | 0.000041 | U | 0.00090 | 0.000041 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Endrin aldehyde | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Endrin ketone | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Heptachlor | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Heptachlor epoxide | 0.000053 | U | 0.00090 | 0.000053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |
| Methoxychlor | 0.00015 | U | 0.00090 | 0.00015 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-02

**Date Collected: 01/16/14 13:50**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-2

**Matrix: Solid**
**Percent Solids: 94.0**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.0090 | U | 0.053 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *112* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 20:04* | *1* |
| *Tetrachloro-m-xylene* | *116* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 20:04* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.012 | U | 0.21 | 0.012 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| 2,4-DB | 0.0074 | U | 0.016 | 0.0074 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| 2,4,5-T | 0.0036 | U | 0.042 | 0.0036 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| Silvex (2,4,5-TP) | 0.018 | U | 0.042 | 0.018 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| Dalapon | 0.075 | U | 1.3 | 0.075 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| Dicamba | 0.0013 | U | 0.063 | 0.0013 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| Dichlorprop | 0.0035 | U | 0.14 | 0.0035 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| Dinoseb | 0.0045 | U | 0.21 | 0.0045 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| MCPA | 0.91 | U | 53 | 0.91 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |
| MCPP | 0.42 | U | 53 | 0.42 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *60* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 16:48* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **20** | | 5.3 | 1.8 | mg/Kg | ☼ | | 01/21/14 22:31 | 5 |
| **Nitrite as N** | **13** | | 5.3 | 1.8 | mg/Kg | ☼ | | 01/21/14 22:31 | 5 |
| **Nitrate Nitrite as N** | **33** | | 5.3 | 1.8 | mg/Kg | ☼ | | 01/21/14 22:31 | 5 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | | 0.49 | 0.39 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| **Barium** | **58** | | 0.98 | 0.20 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| **Cadmium** | **0.40** | **I** | 0.49 | 0.098 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| **Chromium** | **45** | | 0.98 | 0.20 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| **Lead** | **15** | | 0.49 | 0.20 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| **Selenium** | **0.51** | **I** | 0.98 | 0.39 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |
| Silver | 0.20 | U | 0.49 | 0.20 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:52 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.019** | | 0.017 | 0.0099 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:45 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-03

**Date Collected: 01/16/14 14:10**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-3

**Matrix: Solid**
**Percent Solids: 87.9**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | U | 0.037 | 0.0074 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Chlorpyrifos | 0.0084 | U | 0.037 | 0.0084 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Coumaphos | 0.015 | U | 0.37 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 00:07 | 1 |
| Diazinon | 0.017 | U | 0.074 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Dichlorvos | 0.0077 | U | 0.074 | 0.0077 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Disulfoton | 0.0070 | U | 0.074 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Ethoprop | 0.012 | U | 0.037 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Fensulfothion | 0.012 | U | 0.37 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Fenthion | 0.0085 | U | 0.037 | 0.0085 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Methyl parathion | 0.0085 | U | 0.037 | 0.0085 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Mevinphos | 0.015 | U | 0.074 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Phorate | 0.011 | U | 0.037 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Ronnel | 0.0083 | U | 0.037 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Stirophos | 0.020 | U | 0.037 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Terbutryn | 0.0093 | U | 0.037 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Tokuthion | 0.024 | U | 0.037 | 0.024 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Dimethoate | 0.0092 | U | 0.074 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| EPN | 0.0091 | U | 0.074 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Ethyl Parathion | 0.0094 | U | 0.037 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Malathion | 0.0072 | U | 0.037 | 0.0072 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Sulfotepp | 0.0074 | U | 0.037 | 0.0074 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |
| Famphur | 0.0095 | U | 0.074 | 0.0095 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 00:07 | 1 |
| Thionazin | 0.010 | U | 0.037 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 01:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *131* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 01:39* | *1* |
| *Triphenylphosphate* | *131* | | *30 - 164* | *01/21/14 11:27* | *02/01/14 00:07* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aldrin** | **0.00033** | **I** | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| alpha-BHC | 0.000047 | U | 0.00097 | 0.000047 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **beta-BHC** | **0.00049** | **I** | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| delta-BHC | 0.000040 | U | 0.00097 | 0.000040 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| gamma-BHC (Lindane) | 0.000057 | U | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **alpha-Chlordane** | **0.040** | | 0.0048 | 0.00028 | mg/Kg | ☼ | 01/21/14 11:39 | 01/28/14 13:21 | 5 |
| **gamma-Chlordane** | **0.023** | | 0.00097 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **4,4'-DDD** | **0.00074** | **I** | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **4,4'-DDE** | **0.019** | | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **4,4'-DDT** | **0.0028** | | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **Dieldrin** | **0.013** | | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Endosulfan I | 0.000091 | U | 0.00097 | 0.000091 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **Endosulfan II** | **0.0021** | | 0.00097 | 0.000047 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| **Endosulfan sulfate** | **0.0013** | | 0.00097 | 0.00015 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Endrin | 0.000044 | U | 0.00097 | 0.000044 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Endrin aldehyde | 0.000057 | U | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Endrin ketone | 0.000057 | U | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Heptachlor | 0.000057 | U | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Heptachlor epoxide | 0.000057 | U | 0.00097 | 0.000057 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |
| Methoxychlor | 0.00016 | U | 0.00097 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-03

**Date Collected: 01/16/14 14:10**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-3

**Matrix: Solid**
**Percent Solids: 87.9**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.0097 | U | 0.057 | 0.0097 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 20:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *114* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 20:35* | *1* |
| *Tetrachloro-m-xylene* | *126* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 20:35* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.012 | U | 0.23 | 0.012 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| 2,4-DB | 0.0079 | U | 0.017 | 0.0079 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| 2,4,5-T | 0.0039 | U | 0.045 | 0.0039 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.045 | 0.019 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| Dalapon | 0.080 | U | 1.4 | 0.080 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| Dicamba | 0.0014 | U | 0.068 | 0.0014 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| Dichlorprop | 0.0037 | U | 0.15 | 0.0037 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| Dinoseb | 0.0049 | U | 0.23 | 0.0049 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| MCPA | 0.99 | U | 57 | 0.99 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |
| MCPP | 0.45 | U | 57 | 0.45 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *69* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 17:14* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **13** | | 5.6 | 1.9 | mg/Kg | ☼ | | 01/21/14 22:54 | 5 |
| **Nitrite as N** | **14** | | 5.6 | 1.9 | mg/Kg | ☼ | | 01/21/14 22:54 | 5 |
| **Nitrate Nitrite as N** | **27** | | 5.6 | 1.9 | mg/Kg | ☼ | | 01/21/14 22:54 | 5 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.5** | | 0.53 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| **Barium** | **42** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| **Cadmium** | **0.38** | **I** | 0.53 | 0.11 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| **Chromium** | **24** | | 1.1 | 0.21 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| **Lead** | **20** | | 0.53 | 0.21 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| **Selenium** | **0.57** | **I** | 1.1 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |
| Silver | 0.21 | U | 0.53 | 0.21 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:56 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | U | 0.018 | 0.011 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:46 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-04

**Date Collected: 01/16/14 14:40**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-4

**Matrix: Solid**
**Percent Solids: 75.4**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0087 | U | 0.044 | 0.0087 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Chlorpyrifos | 0.0099 | U | 0.044 | 0.0099 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Coumaphos | 0.017 | U | 0.44 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 00:40 | 1 |
| Diazinon | 0.020 | U | 0.087 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Dichlorvos | 0.0091 | U | 0.087 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Disulfoton | 0.0082 | U | 0.087 | 0.0082 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Ethoprop | 0.015 | U | 0.044 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Fensulfothion | 0.015 | U | 0.44 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Fenthion | 0.010 | U | 0.044 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Methyl parathion | 0.010 | U | 0.044 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Mevinphos | 0.017 | U | 0.087 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Phorate | 0.013 | U | 0.044 | 0.013 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Ronnel | 0.0098 | U | 0.044 | 0.0098 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Stirophos | 0.024 | U | 0.044 | 0.024 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Terbutryn | 0.011 | U | 0.044 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Tokuthion | 0.028 | U | 0.044 | 0.028 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Dimethoate | 0.011 | U | 0.087 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| EPN | 0.011 | U | 0.087 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Ethyl Parathion | 0.011 | U | 0.044 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Malathion | 0.0085 | U | 0.044 | 0.0085 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Sulfotepp | 0.0087 | U | 0.044 | 0.0087 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |
| Famphur | 0.011 | U | 0.087 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 00:40 | 1 |
| Thionazin | 0.012 | U | 0.044 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *95* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 02:12* | *1* |
| *Triphenylphosphate* | *102* | | *30 - 164* | *01/21/14 11:27* | *02/01/14 00:40* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| alpha-BHC | 0.00027 | U | 0.0056 | 0.00027 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| beta-BHC | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| delta-BHC | 0.00023 | U | 0.0056 | 0.00023 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| gamma-BHC (Lindane) | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| alpha-Chlordane | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| gamma-Chlordane | 0.00032 | U | 0.0056 | 0.00032 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| 4,4'-DDD | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| **4,4'-DDE** | **0.10** | | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| **4,4'-DDT** | **0.0066** | | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Dieldrin | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endosulfan I | 0.00053 | U | 0.0056 | 0.00053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endosulfan II | 0.00027 | U | 0.0056 | 0.00027 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endosulfan sulfate | 0.00086 | U | 0.0056 | 0.00086 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endrin | 0.00026 | U | 0.0056 | 0.00026 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endrin aldehyde | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Endrin ketone | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Heptachlor | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Heptachlor epoxide | 0.00033 | U | 0.0056 | 0.00033 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |
| Methoxychlor | 0.00096 | U | 0.0056 | 0.00096 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-04

**Date Collected: 01/16/14 14:40**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-4

**Matrix: Solid**
**Percent Solids: 75.4**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.056 | U | 0.33 | 0.056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:07 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *93* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 21:07* | *5* |
| *Tetrachloro-m-xylene* | *87* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 21:07* | *5* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.015 | U | 0.26 | 0.015 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| 2,4-DB | 0.0093 | U | 0.020 | 0.0093 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| 2,4,5-T | 0.0045 | U | 0.053 | 0.0045 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| Silvex (2,4,5-TP) | 0.023 | U | 0.053 | 0.023 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| Dalapon | 0.094 | U | 1.6 | 0.094 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| Dicamba | 0.0016 | U | 0.079 | 0.0016 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| Dichlorprop | 0.0044 | U | 0.17 | 0.0044 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| Dinoseb | 0.0057 | U | 0.26 | 0.0057 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| MCPA | 1.2 | U | 66 | 1.2 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |
| MCPP | 0.53 | U | 66 | 0.53 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 17:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *86* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 17:39* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **12** | | 6.5 | 2.1 | mg/Kg | ☼ | | 01/22/14 00:25 | 5 |
| Nitrite as N | 2.1 | U | 6.5 | 2.1 | mg/Kg | ☼ | | 01/22/14 00:25 | 5 |
| **Nitrate Nitrite as N** | **12** | | 6.5 | 2.1 | mg/Kg | ☼ | | 01/22/14 00:25 | 5 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.0** | | 0.61 | 0.49 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| **Barium** | **59** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| **Cadmium** | **0.47** | **I** | 0.61 | 0.12 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| **Chromium** | **33** | | 1.2 | 0.25 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| **Lead** | **41** | | 0.61 | 0.25 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| **Selenium** | **0.68** | **I** | 1.2 | 0.49 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |
| Silver | 0.25 | U | 0.61 | 0.25 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 18:59 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.021** | | 0.019 | 0.011 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:48 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-05

**Date Collected: 01/16/14 15:10**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-5

**Matrix: Solid**
**Percent Solids: 90.2**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0073 | U | 0.036 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Chlorpyrifos | 0.0083 | U | 0.036 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Coumaphos | 0.014 | U | 0.36 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 01:13 | 1 |
| Diazinon | 0.017 | U | 0.073 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Dichlorvos | 0.0076 | U | 0.073 | 0.0076 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Disulfoton | 0.0069 | U | 0.073 | 0.0069 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Ethoprop | 0.012 | U | 0.036 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Fensulfothion | 0.012 | U | 0.36 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Fenthion | 0.0084 | U | 0.036 | 0.0084 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Methyl parathion | 0.0084 | U | 0.036 | 0.0084 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Mevinphos | 0.014 | U | 0.073 | 0.014 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Phorate | 0.011 | U | 0.036 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Ronnel | 0.0082 | U | 0.036 | 0.0082 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Stirophos | 0.020 | U | 0.036 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Terbutryn | 0.0092 | U | 0.036 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Tokuthion | 0.023 | U | 0.036 | 0.023 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Dimethoate | 0.0091 | U | 0.073 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| EPN | 0.0090 | U | 0.073 | 0.0090 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Ethyl Parathion | 0.0093 | U | 0.036 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Malathion | 0.0071 | U | 0.036 | 0.0071 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Sulfotepp | 0.0073 | U | 0.036 | 0.0073 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |
| Famphur | 0.0094 | U | 0.073 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 01:13 | 1 |
| Thionazin | 0.010 | U | 0.036 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 02:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *107* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 02:46* | *1* |
| *Triphenylphosphate* | *111* | | *30 - 164* | *01/21/14 11:27* | *02/01/14 01:13* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aldrin** | **0.00046** | **I** | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| alpha-BHC | 0.000045 | U | 0.00093 | 0.000045 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| beta-BHC | 0.000055 | U | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| delta-BHC | 0.000038 | U | 0.00093 | 0.000038 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| **alpha-Chlordane** | **0.069** | | 0.0093 | 0.00055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/28/14 14:25 | 10 |
| **gamma-Chlordane** | **0.034** | | 0.0093 | 0.00053 | mg/Kg | ☼ | 01/21/14 11:39 | 01/28/14 14:25 | 10 |
| **4,4'-DDD** | **0.0011** | | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| **4,4'-DDE** | **0.20** | | 0.0093 | 0.00055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/28/14 14:25 | 10 |
| **4,4'-DDT** | **0.022** | | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| **Dieldrin** | **0.026** | | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endosulfan I | 0.000088 | U | 0.00093 | 0.000088 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endosulfan II | 0.000046 | U | 0.00093 | 0.000046 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endosulfan sulfate | 0.00014 | U | 0.00093 | 0.00014 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endrin | 0.000043 | U | 0.00093 | 0.000043 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endrin aldehyde | 0.000055 | U | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Endrin ketone | 0.000055 | U | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| **Heptachlor** | **0.00065** | **I** | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| **Heptachlor epoxide** | **0.0018** | | 0.00093 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |
| Methoxychlor | 0.00016 | U | 0.00093 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-05

**Date Collected: 01/16/14 15:10**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-5

**Matrix: Solid**
**Percent Solids: 90.2**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.0093 | U | 0.055 | 0.0093 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 21:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *94* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 21:39* | *1* |
| *Tetrachloro-m-xylene* | *98* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 21:39* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.012 | U | 0.22 | 0.012 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| 2,4-DB | 0.0078 | U | 0.017 | 0.0078 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| 2,4,5-T | 0.0038 | U | 0.044 | 0.0038 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.044 | 0.019 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| Dalapon | 0.079 | U | 1.3 | 0.079 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| Dicamba | 0.0013 | U | 0.066 | 0.0013 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| Dichlorprop | 0.0037 | U | 0.14 | 0.0037 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| Dinoseb | 0.0048 | U | 0.22 | 0.0048 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| MCPA | 0.96 | U | 55 | 0.96 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |
| MCPP | 0.44 | U | 55 | 0.44 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 18:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *77* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 18:05* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **13** | | 5.5 | 1.8 | mg/Kg | ☼ | | 01/22/14 00:48 | 5 |
| **Nitrite as N** | **14** | | 5.5 | 1.8 | mg/Kg | ☼ | | 01/22/14 00:48 | 5 |
| **Nitrate Nitrite as N** | **27** | | 5.5 | 1.8 | mg/Kg | ☼ | | 01/22/14 00:48 | 5 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.6** | | 0.54 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| **Barium** | **42** | | 1.1 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| **Cadmium** | **0.27** | **I** | 0.54 | 0.11 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| **Chromium** | **33** | | 1.1 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| **Lead** | **13** | | 0.54 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| Selenium | 0.43 | U | 1.1 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |
| **Silver** | **0.23** | **I** | 0.54 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:03 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.032** | | 0.018 | 0.011 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:49 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-06

**Date Collected: 01/16/14 15:25**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-6

**Matrix: Solid**
**Percent Solids: 88.4**

### Method: 8141A - Organophosphorous Pesticides (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | U | 0.037 | 0.0074 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Chlorpyrifos | 0.0085 | U | 0.037 | 0.0085 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Coumaphos | 0.015 | U | 0.37 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 01:47 | 1 |
| Diazinon | 0.017 | U | 0.074 | 0.017 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Dichlorvos | 0.0078 | U | 0.074 | 0.0078 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Disulfoton | 0.0070 | U | 0.074 | 0.0070 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Ethoprop | 0.012 | U | 0.037 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Fensulfothion | 0.012 | U | 0.37 | 0.012 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Fenthion | 0.0086 | U | 0.037 | 0.0086 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Methyl parathion | 0.0086 | U | 0.037 | 0.0086 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Mevinphos | 0.015 | U | 0.074 | 0.015 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Phorate | 0.011 | U | 0.037 | 0.011 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Ronnel | 0.0083 | U | 0.037 | 0.0083 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Stirophos | 0.020 | U | 0.037 | 0.020 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Terbutryn | 0.0094 | U | 0.037 | 0.0094 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Tokuthion | 0.024 | U | 0.037 | 0.024 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Dimethoate | 0.0092 | U | 0.074 | 0.0092 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| EPN | 0.0091 | U | 0.074 | 0.0091 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Ethyl Parathion | 0.0095 | U | 0.037 | 0.0095 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| **Malathion** | **0.14** | | 0.037 | 0.0072 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Sulfotepp | 0.0074 | U | 0.037 | 0.0074 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |
| Famphur | 0.0096 | U | 0.074 | 0.0096 | mg/Kg | ☼ | 01/21/14 11:27 | 02/01/14 01:47 | 1 |
| Thionazin | 0.010 | U | 0.037 | 0.010 | mg/Kg | ☼ | 01/21/14 11:27 | 01/31/14 03:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *116* | | *30 - 164* | *01/21/14 11:27* | *01/31/14 03:19* | *1* |
| *Triphenylphosphate* | *121* | | *30 - 164* | *01/21/14 11:27* | *02/01/14 01:47* | *1* |

### Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| alpha-BHC | 0.000046 | U | 0.00096 | 0.000046 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| beta-BHC | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| delta-BHC | 0.000039 | U | 0.00096 | 0.000039 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **gamma-BHC (Lindane)** | **0.0021** | | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **alpha-Chlordane** | **0.013** | | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **gamma-Chlordane** | **0.0048** | | 0.00096 | 0.000055 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| 4,4'-DDD | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **4,4'-DDE** | **0.032** | | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **4,4'-DDT** | **0.0098** | | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **Dieldrin** | **0.024** | | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Endosulfan I | 0.000090 | U | 0.00096 | 0.000090 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **Endosulfan II** | **0.0028** | | 0.00096 | 0.000047 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| **Endosulfan sulfate** | **0.0011** | | 0.00096 | 0.00015 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Endrin | 0.000044 | U | 0.00096 | 0.000044 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Endrin aldehyde | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Endrin ketone | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Heptachlor | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Heptachlor epoxide | 0.000056 | U | 0.00096 | 0.000056 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |
| Methoxychlor | 0.00016 | U | 0.00096 | 0.00016 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-06

**Date Collected: 01/16/14 15:25**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-6

**Matrix: Solid**
**Percent Solids: 88.4**

### Method: 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toxaphene | 0.0096 | U | 0.056 | 0.0096 | mg/Kg | ☼ | 01/21/14 11:39 | 01/24/14 22:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *109* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 22:10* | *1* |
| *Tetrachloro-m-xylene* | *112* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 22:10* | *1* |

### Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.012 | U | 0.23 | 0.012 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| 2,4-DB | 0.0079 | U | 0.017 | 0.0079 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| 2,4,5-T | 0.0038 | U J3 | 0.045 | 0.0038 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.045 | 0.019 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| Dalapon | 0.080 | U | 1.4 | 0.080 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| Dicamba | 0.0014 | U | 0.068 | 0.0014 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| Dichlorprop | 0.0037 | U | 0.15 | 0.0037 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| Dinoseb | 0.0048 | U | 0.23 | 0.0048 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| MCPA | 0.98 | U | 56 | 0.98 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |
| MCPP | 0.45 | U | 56 | 0.45 | mg/Kg | ☼ | 01/21/14 08:33 | 01/23/14 12:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *91* | | *10 - 150* | *01/21/14 08:33* | *01/23/14 12:31* | *1* |

### Method: 9056 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Nitrate as N** | **170** | | 1.1 | 0.36 | mg/Kg | ☼ | | 01/22/14 01:11 | 1 |
| Nitrite as N | 0.36 | U | 1.1 | 0.36 | mg/Kg | ☼ | | 01/22/14 01:11 | 1 |
| **Nitrate Nitrite as N** | **170** | | 1.1 | 0.36 | mg/Kg | ☼ | | 01/22/14 01:11 | 1 |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **30** | | 0.54 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| **Barium** | **41** | | 1.1 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| **Cadmium** | **0.61** | | 0.54 | 0.11 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| **Chromium** | **56** | | 1.1 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| **Lead** | **9.1** | | 0.54 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| Selenium | 0.43 | U | 1.1 | 0.43 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |
| **Silver** | **0.26** | **I** | 0.54 | 0.22 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:06 | 1 |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.025** | | 0.018 | 0.011 | mg/Kg | ☼ | 01/21/14 10:18 | 01/22/14 12:35 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 02-SU-01

**Date Collected: 01/13/14 11:40**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-7

**Matrix: Solid**
**Percent Solids: 80.8**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00061 | U | 0.0063 | 0.00061 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 14:49 | 1 |
| Toluene | 0.00088 | U | 0.0063 | 0.00088 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 14:49 | 1 |
| **Ethylbenzene** | **0.00093** | **I** | 0.0063 | 0.00076 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 14:49 | 1 |
| Xylenes, Total | 0.0024 | U | 0.013 | 0.0024 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 14:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *72 - 122* | *01/21/14 14:50* | *01/23/14 14:49* | *1* |
| *Dibromofluoromethane* | *94* | | *79 - 123* | *01/21/14 14:50* | *01/23/14 14:49* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* | *01/21/14 14:50* | *01/23/14 14:49* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Acenaphthylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Benzo[a]anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Benzo[a]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Benzo[b]fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Benzo[g,h,i]perylene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Benzo[k]fluoranthene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Chrysene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Dibenz(a,h)anthracene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| **Fluoranthene** | **0.075** | **I** | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Fluorene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Indeno[1,2,3-cd]pyrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Naphthalene | 0.061 | U J3 | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| Phenanthrene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| **Pyrene** | **0.077** | **I** | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| 1-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |
| 2-Methylnaphthalene | 0.061 | U | 2.0 | 0.061 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 21:28 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *88* | | *44 - 108* | *01/23/14 09:32* | *01/27/14 21:28* | *5* |
| *Nitrobenzene-d5 (Surr)* | *83* | | *27 - 114* | *01/23/14 09:32* | *01/27/14 21:28* | *5* |
| *Terphenyl-d14 (Surr)* | *120* | | *36 - 134* | *01/23/14 09:32* | *01/27/14 21:28* | *5* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.5** | | 0.58 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:09 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 02-SU-02

**Date Collected: 01/15/14 11:15**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-8

**Matrix: Solid**
**Percent Solids: 80.8**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00062 | U | 0.0063 | 0.00062 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:12 | 1 |
| Toluene | 0.00089 | U | 0.0063 | 0.00089 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:12 | 1 |
| Ethylbenzene | 0.00077 | U | 0.0063 | 0.00077 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:12 | 1 |
| Xylenes, Total | 0.0024 | U | 0.013 | 0.0024 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 122* | *01/21/14 14:50* | *01/23/14 15:12* | *1* |
| *Dibromofluoromethane* | *95* | | *79 - 123* | *01/21/14 14:50* | *01/23/14 15:12* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* | *01/21/14 14:50* | *01/23/14 15:12* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Acenaphthylene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Benzo[a]anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Benzo[a]pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Benzo[b]fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Benzo[g,h,i]perylene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Benzo[k]fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Chrysene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Dibenz(a,h)anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Fluorene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Indeno[1,2,3-cd]pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Naphthalene | 0.037 | U J3 | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Phenanthrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| Pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| 1-Methylnaphthalene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |
| 2-Methylnaphthalene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:06 | 3 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *95* | | *44 - 108* | *01/23/14 09:32* | *01/27/14 22:06* | *3* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *27 - 114* | *01/23/14 09:32* | *01/27/14 22:06* | *3* |
| *Terphenyl-d14 (Surr)* | *110* | | *36 - 134* | *01/23/14 09:32* | *01/27/14 22:06* | *3* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.3** | | 0.58 | 0.23 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:13 | 1 |

# Client Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 02-SU-03

**Date Collected: 01/15/14 11:15**
**Date Received: 01/18/14 09:28**

## Lab Sample ID: 400-85591-9

**Matrix: Solid**
**Percent Solids: 81.3**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00061 | U | 0.0062 | 0.00061 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:35 | 1 |
| Toluene | 0.00087 | U | 0.0062 | 0.00087 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:35 | 1 |
| Ethylbenzene | 0.00076 | U | 0.0062 | 0.00076 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:35 | 1 |
| Xylenes, Total | 0.0024 | U | 0.012 | 0.0024 | mg/Kg | ☼ | 01/21/14 14:50 | 01/23/14 15:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *72 - 122* | *01/21/14 14:50* | *01/23/14 15:35* | *1* |
| *Dibromofluoromethane* | *96* | | *79 - 123* | *01/21/14 14:50* | *01/23/14 15:35* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *80 - 120* | *01/21/14 14:50* | *01/23/14 15:35* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Acenaphthylene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Benzo[a]anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Benzo[a]pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Benzo[b]fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Benzo[g,h,i]perylene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Benzo[k]fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Chrysene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Dibenz(a,h)anthracene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Fluoranthene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Fluorene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Indeno[1,2,3-cd]pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Naphthalene | 0.037 | U J3 | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Phenanthrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| Pyrene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| 1-Methylnaphthalene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |
| 2-Methylnaphthalene | 0.037 | U | 1.2 | 0.037 | mg/Kg | ☼ | 01/23/14 09:32 | 01/27/14 22:44 | 3 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *96* | | *44 - 108* | *01/23/14 09:32* | *01/27/14 22:44* | *3* |
| *Nitrobenzene-d5 (Surr)* | *81* | | *27 - 114* | *01/23/14 09:32* | *01/27/14 22:44* | *3* |
| *Terphenyl-d14 (Surr)* | *119* | | *36 - 134* | *01/23/14 09:32* | *01/30/14 15:25* | *3* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.6** | | 0.59 | 0.24 | mg/Kg | ☼ | 01/22/14 10:30 | 01/31/14 19:16 | 1 |

# Definitions/Glossary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1



## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| L | Off-scale high. Actual value is known to be greater than the value given. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| U | Indicates that the compound was analyzed for but not detected. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates that the compound was analyzed for but not detected. |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-01 — Lab Sample ID: 400-85591-1

**Date Collected: 01/16/14 13:40** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 82.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 00:33 | AJR | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 23:01 | AJR | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205583 | 01/23/14 12:57 | VC1 | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 19:32 | VC1 | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 5 | 205504 | 01/21/14 22:08 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:44 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 18:25 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 03-SS-02 — Lab Sample ID: 400-85591-2

**Date Collected: 01/16/14 13:50** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 94.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 01:06 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 01/31/14 23:34 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 16:48 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 20:04 | VC1 | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 5 | 205504 | 01/21/14 22:31 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:45 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 18:52 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 03-SS-03 — Lab Sample ID: 400-85591-3

**Date Collected: 01/16/14 14:10** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 87.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 01:39 | AJR | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-03 — Lab Sample ID: 400-85591-3

**Date Collected: 01/16/14 14:10** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 87.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8141A | | 1 | 206210 | 02/01/14 00:07 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 17:14 | VC1 | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 20:35 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 5 | 205994 | 01/28/14 13:21 | VC1 | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 5 | 205504 | 01/21/14 22:54 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:46 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 18:56 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 03-SS-04 — Lab Sample ID: 400-85591-4

**Date Collected: 01/16/14 14:40** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 75.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 02:12 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 02/01/14 00:40 | AJR | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 17:39 | VC1 | TAL PEN |
| Total/NA | Analysis | 8081B | | 5 | 205926 | 01/24/14 21:07 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 5 | 205504 | 01/22/14 00:25 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:48 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 18:59 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 03-SS-05 — Lab Sample ID: 400-85591-5

**Date Collected: 01/16/14 15:10** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 90.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 02:46 | AJR | TAL PEN |
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 02/01/14 01:13 | AJR | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 03-SS-05 — Lab Sample ID: 400-85591-5

**Date Collected: 01/16/14 15:10** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 90.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8151A | | 1 | 205585 | 01/23/14 18:05 | VC1 | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 21:39 | VC1 | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 10 | 205994 | 01/28/14 14:25 | VC1 | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 5 | 205504 | 01/22/14 00:48 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:49 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 19:03 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 03-SS-06 — Lab Sample ID: 400-85591-6

**Date Collected: 01/16/14 15:25** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 88.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550B | | | 205180 | 01/21/14 11:27 | RDT | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 205698 | 01/31/14 03:19 | AJR | TAL PEN |
| Total/NA | Analysis | 8141A | | 1 | 206210 | 02/01/14 01:47 | AJR | TAL PEN |
| Total/NA | Analysis | 8151A | | 1 | 205583 | 01/23/14 12:31 | VC1 | TAL PEN |
| Total/NA | Prep | 8151A | | | 205142 | 01/21/14 08:33 | RDT | TAL PEN |
| Total/NA | Prep | 3550C | | | 205185 | 01/21/14 11:39 | RDT | TAL PEN |
| Total/NA | Analysis | 8081B | | 1 | 205926 | 01/24/14 22:10 | VC1 | TAL PEN |
| Soluble | Leach | DI Leach | | | 205034 | 01/20/14 09:18 | TAJ | TAL PEN |
| Soluble | Analysis | 9056 | | 1 | 205504 | 01/22/14 01:11 | TAJ | TAL PEN |
| Total/NA | Prep | 7471B | | | 205147 | 01/21/14 10:18 | JAP | TAL PEN |
| Total/NA | Analysis | 7471B | | 1 | 205374 | 01/22/14 12:35 | JAP | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 19:06 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 02-SU-01 — Lab Sample ID: 400-85591-7

**Date Collected: 01/13/14 11:40** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 80.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 205479 | 01/21/14 14:50 | ARM | TAL PEN |
| Total/NA | Analysis | 8260B | | 1 | 205429 | 01/23/14 14:49 | ARM | TAL PEN |
| Total/NA | Prep | 3550C | | | 205462 | 01/23/14 09:32 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 5 | 205771 | 01/27/14 21:28 | KJA | TAL PEN |

# Lab Chronicle

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Client Sample ID: 02-SU-01 — Lab Sample ID: 400-85591-7

**Date Collected: 01/13/14 11:40** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 80.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 19:09 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 02-SU-02 — Lab Sample ID: 400-85591-8

**Date Collected: 01/15/14 11:15** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 80.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 205479 | 01/21/14 14:50 | ARM | TAL PEN |
| Total/NA | Analysis | 8260B | | 1 | 205429 | 01/23/14 15:12 | ARM | TAL PEN |
| Total/NA | Prep | 3550C | | | 205462 | 01/23/14 09:32 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 3 | 205771 | 01/27/14 22:06 | KJA | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 19:13 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

## Client Sample ID: 02-SU-03 — Lab Sample ID: 400-85591-9

**Date Collected: 01/15/14 11:15** — **Matrix: Solid**
**Date Received: 01/18/14 09:28** — **Percent Solids: 81.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 205479 | 01/21/14 14:50 | ARM | TAL PEN |
| Total/NA | Analysis | 8260B | | 1 | 205429 | 01/23/14 15:35 | ARM | TAL PEN |
| Total/NA | Analysis | 8270D | | 3 | 205771 | 01/27/14 22:44 | KJA | TAL PEN |
| Total/NA | Prep | 3550C | | | 205462 | 01/23/14 09:32 | RDT | TAL PEN |
| Total/NA | Analysis | 8270D | | 3 | 205944 | 01/30/14 15:25 | AJR | TAL PEN |
| Total/NA | Prep | 3050B | | | 205202 | 01/22/14 10:30 | DN1 | TAL PEN |
| Total/NA | Analysis | 6010C | | 1 | 206287 | 01/31/14 19:16 | SLM | TAL PEN |
| Total/NA | Analysis | Moisture | | 1 | 205306 | 01/21/14 17:00 | LEC | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## GC/MS VOA

### Analysis Batch: 205429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85566-A-1-H MS | Matrix Spike | Total/NA | Solid | 8260B | 205479 |
| 400-85566-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | 205479 |
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 8260B | 205479 |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 8260B | 205479 |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 8260B | 205479 |
| LCS 400-205479/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 205479 |
| MB 400-205479/1-A | Method Blank | Total/NA | Solid | 8260B | 205479 |

### Prep Batch: 205479

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85566-A-1-H MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 400-85566-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 5035 | |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 5035 | |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 5035 | |
| LCS 400-205479/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| MB 400-205479/1-A | Method Blank | Total/NA | Solid | 5035 | |

## GC/MS Semi VOA

### Prep Batch: 205180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 3550B | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 3550B | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 3550B | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 3550B | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 3550B | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 3550B | |
| 400-85591-6 MS | 03-SS-06 | Total/NA | Solid | 3550B | |
| 400-85591-6 MSD | 03-SS-06 | Total/NA | Solid | 3550B | |
| LCS 400-205180/13-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 3550B | |

### Prep Batch: 205462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 3550C | |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 3550C | |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 3550C | |
| 400-85630-A-1-L MS | Matrix Spike | Total/NA | Solid | 3550B | |
| 400-85630-A-1-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550B | |
| LCS 400-205462/11-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205462/12-A | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 205507

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85630-A-1-L MS | Matrix Spike | Total/NA | Solid | 8270D | 205462 |
| 400-85630-A-1-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 8270D | 205462 |
| LCS 400-205462/11-A | Lab Control Sample | Total/NA | Solid | 8270D | 205462 |
| MB 400-205462/12-A | Method Blank | Total/NA | Solid | 8270D | 205462 |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 205698

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-6 MS | 03-SS-06 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-6 MSD | 03-SS-06 | Total/NA | Solid | 8141A | 205180 |
| LCS 400-205180/13-A | Lab Control Sample | Total/NA | Solid | 8141A | 205180 |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 8141A | 205180 |

### Analysis Batch: 205771

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 8270D | 205462 |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 8270D | 205462 |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 8270D | 205462 |

### Analysis Batch: 205944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 8270D | 205462 |

### Analysis Batch: 206210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8141A | 205180 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 8141A | 205180 |
| MB 400-205180/14-A | Method Blank | Total/NA | Solid | 8141A | 205180 |

## GC Semi VOA

### Prep Batch: 205142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 8151A | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 8151A | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8151A | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 8151A | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8151A | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 8151A | |
| 400-85591-6 MS | 03-SS-06 | Total/NA | Solid | 8151A | |
| 400-85591-6 MSD | 03-SS-06 | Total/NA | Solid | 8151A | |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | |

### Prep Batch: 205185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-A-5-L MS | Matrix Spike | Total/NA | Solid | 3550C | |
| 400-85526-A-5-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 3550C | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## GC Semi VOA (Continued)

### Prep Batch: 205185 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 3550C | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 3550C | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 3550C | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 3550C | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 3550C | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 3550C | |
| LCS 400-205185/23-B | Lab Control Sample | Total/NA | Solid | 3550B | |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 3550B | |

### Analysis Batch: 205583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-6 MS | 03-SS-06 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-6 MSD | 03-SS-06 | Total/NA | Solid | 8151A | 205142 |
| LCS 400-205142/17-A | Lab Control Sample | Total/NA | Solid | 8151A | 205142 |
| MB 400-205142/18-A | Method Blank | Total/NA | Solid | 8151A | 205142 |

### Analysis Batch: 205585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 8151A | 205142 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8151A | 205142 |

### Analysis Batch: 205926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85526-A-5-L MS | Matrix Spike | Total/NA | Solid | 8081B | 205185 |
| 400-85526-A-5-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 8081B | 205185 |
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 8081B | 205185 |
| LCS 400-205185/23-B | Lab Control Sample | Total/NA | Solid | 8081B | 205185 |
| MB 400-205185/25-B | Method Blank | Total/NA | Solid | 8081B | 205185 |

### Analysis Batch: 205994

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 8081B | 205185 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 8081B | 205185 |

## HPLC/IC

### Leach Batch: 205034

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Soluble | Solid | DI Leach | |
| 400-85591-1 MS | 03-SS-01 | Soluble | Solid | DI Leach | |
| 400-85591-1 MSD | 03-SS-01 | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## HPLC/IC (Continued)

### Leach Batch: 205034 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-2 | 03-SS-02 | Soluble | Solid | DI Leach | |
| 400-85591-3 | 03-SS-03 | Soluble | Solid | DI Leach | |
| 400-85591-4 | 03-SS-04 | Soluble | Solid | DI Leach | |
| 400-85591-5 | 03-SS-05 | Soluble | Solid | DI Leach | |
| 400-85591-6 | 03-SS-06 | Soluble | Solid | DI Leach | |
| MB 400-205034/1-A | Method Blank | Soluble | Solid | DI Leach | |

### Analysis Batch: 205504

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Soluble | Solid | 9056 | 205034 |
| 400-85591-1 MS | 03-SS-01 | Soluble | Solid | 9056 | 205034 |
| 400-85591-1 MSD | 03-SS-01 | Soluble | Solid | 9056 | 205034 |
| 400-85591-2 | 03-SS-02 | Soluble | Solid | 9056 | 205034 |
| 400-85591-3 | 03-SS-03 | Soluble | Solid | 9056 | 205034 |
| 400-85591-4 | 03-SS-04 | Soluble | Solid | 9056 | 205034 |
| 400-85591-5 | 03-SS-05 | Soluble | Solid | 9056 | 205034 |
| 400-85591-6 | 03-SS-06 | Soluble | Solid | 9056 | 205034 |
| MB 400-205034/1-A | Method Blank | Soluble | Solid | 9056 | 205034 |

## Metals

### Prep Batch: 205147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | |
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 7471B | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 7471B | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 7471B | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 7471B | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 7471B | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 7471B | |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | |

### Prep Batch: 205202

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 3050B | |
| 400-85591-1 MS | 03-SS-01 | Total/NA | Solid | 3050B | |
| 400-85591-1 MSD | 03-SS-01 | Total/NA | Solid | 3050B | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 3050B | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 3050B | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 3050B | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 3050B | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 3050B | |
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 3050B | |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 3050B | |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 3050B | |
| LCS 400-205202/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 400-205202/1-A | Method Blank | Total/NA | Solid | 3050B | |

# QC Association Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Metals (Continued)

### Analysis Batch: 205374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85522-A-1-E MS | Matrix Spike | Total/NA | Solid | 7471B | 205147 |
| 400-85522-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471B | 205147 |
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 7471B | 205147 |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 7471B | 205147 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 7471B | 205147 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 7471B | 205147 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 7471B | 205147 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 7471B | 205147 |
| LCS 400-205147/15-A | Lab Control Sample | Total/NA | Solid | 7471B | 205147 |
| MB 400-205147/14-A | Method Blank | Total/NA | Solid | 7471B | 205147 |

### Analysis Batch: 206287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-1 MS | 03-SS-01 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-1 MSD | 03-SS-01 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | 6010C | 205202 |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | 6010C | 205202 |
| LCS 400-205202/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 205202 |
| MB 400-205202/1-A | Method Blank | Total/NA | Solid | 6010C | 205202 |

## General Chemistry

### Analysis Batch: 205306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-85591-1 | 03-SS-01 | Total/NA | Solid | Moisture | |
| 400-85591-2 | 03-SS-02 | Total/NA | Solid | Moisture | |
| 400-85591-2 DU | 03-SS-02 | Total/NA | Solid | Moisture | |
| 400-85591-3 | 03-SS-03 | Total/NA | Solid | Moisture | |
| 400-85591-4 | 03-SS-04 | Total/NA | Solid | Moisture | |
| 400-85591-5 | 03-SS-05 | Total/NA | Solid | Moisture | |
| 400-85591-6 | 03-SS-06 | Total/NA | Solid | Moisture | |
| 400-85591-7 | 02-SU-01 | Total/NA | Solid | Moisture | |
| 400-85591-8 | 02-SU-02 | Total/NA | Solid | Moisture | |
| 400-85591-9 | 02-SU-03 | Total/NA | Solid | Moisture | |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

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

**Lab Sample ID: MB 400-205479/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205429** — **Prep Batch: 205479**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00049 | U | 0.0050 | 0.00049 | mg/Kg | | 01/21/14 14:50 | 01/23/14 09:38 | 1 |
| Toluene | 0.00070 | U | 0.0050 | 0.00070 | mg/Kg | | 01/21/14 14:50 | 01/23/14 09:38 | 1 |
| Ethylbenzene | 0.00061 | U | 0.0050 | 0.00061 | mg/Kg | | 01/21/14 14:50 | 01/23/14 09:38 | 1 |
| Xylenes, Total | 0.0019 | U | 0.010 | 0.0019 | mg/Kg | | 01/21/14 14:50 | 01/23/14 09:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 122* | *01/21/14 14:50* | *01/23/14 09:38* | *1* |
| *Dibromofluoromethane* | *95* | | *79 - 123* | *01/21/14 14:50* | *01/23/14 09:38* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *80 - 120* | *01/21/14 14:50* | *01/23/14 09:38* | *1* |

**Lab Sample ID: LCS 400-205479/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205429** — **Prep Batch: 205479**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0397 | | mg/Kg | | 79 | 74 - 119 |
| Toluene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 76 - 120 |
| Ethylbenzene | 0.0500 | 0.0489 | | mg/Kg | | 98 | 78 - 120 |
| Xylenes, Total | 0.100 | 0.0974 | | mg/Kg | | 97 | 70 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 122* |
| *Dibromofluoromethane* | *99* | | *79 - 123* |
| *Toluene-d8 (Surr)* | *111* | | *80 - 120* |

**Lab Sample ID: 400-85566-A-1-H MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205429** — **Prep Batch: 205479**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00075 | U | 0.0773 | 0.0624 | | mg/Kg | ☼ | 81 | 42 - 120 |
| Toluene | 0.0011 | U | 0.0773 | 0.0753 | | mg/Kg | ☼ | 97 | 34 - 119 |
| Ethylbenzene | 0.00093 | U | 0.0773 | 0.0759 | | mg/Kg | ☼ | 98 | 19 - 124 |
| Xylenes, Total | 0.0029 | U | 0.155 | 0.152 | | mg/Kg | ☼ | 98 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *72 - 122* |
| *Dibromofluoromethane* | *104* | | *79 - 123* |
| *Toluene-d8 (Surr)* | *107* | | *80 - 120* |

**Lab Sample ID: 400-85566-A-1-I MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205429** — **Prep Batch: 205479**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00075 | U | 0.0774 | 0.0284 | J3 | mg/Kg | ☼ | 37 | 42 - 120 | 75 | 20 |
| Toluene | 0.0011 | U | 0.0774 | 0.0358 | J3 | mg/Kg | ☼ | 46 | 34 - 119 | 71 | 36 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

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

**Lab Sample ID: 400-85566-A-1-I MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205429** — **Prep Batch: 205479**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.00093 | U | 0.0774 | 0.0353 | J3 | mg/Kg | ☼ | 46 | 19 - 124 | 73 | 53 |
| Xylenes, Total | 0.0029 | U | 0.155 | 0.0708 | J3 | mg/Kg | ☼ | 46 | 10 - 150 | 73 | 56 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *72 - 122* |
| *Dibromofluoromethane* | *98* | | *79 - 123* |
| *Toluene-d8 (Surr)* | *107* | | *80 - 120* |

## Method: 8141A - Organophosphorous Pesticides (GC/MS)

**Lab Sample ID: MB 400-205180/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Chlorpyrifos | 0.0075 | U | 0.033 | 0.0075 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Diazinon | 0.015 | U | 0.066 | 0.015 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Dichlorvos | 0.0069 | U | 0.066 | 0.0069 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Disulfoton | 0.0062 | U | 0.066 | 0.0062 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ethoprop | 0.011 | U | 0.033 | 0.011 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Fensulfothion | 0.011 | U | 0.33 | 0.011 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Fenthion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Methyl parathion | 0.0076 | U | 0.033 | 0.0076 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Mevinphos | 0.013 | U | 0.066 | 0.013 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Phorate | 0.010 | U | 0.033 | 0.010 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ronnel | 0.0074 | U | 0.033 | 0.0074 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Stirophos | 0.018 | U | 0.033 | 0.018 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Terbutryn | 0.0083 | U | 0.033 | 0.0083 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Tokuthion | 0.021 | U | 0.033 | 0.021 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Dimethoate | 0.0082 | U | 0.066 | 0.0082 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| EPN | 0.0081 | U | 0.066 | 0.0081 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Ethyl Parathion | 0.0084 | U | 0.033 | 0.0084 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Malathion | 0.0064 | U | 0.033 | 0.0064 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Sulfotepp | 0.0066 | U | 0.033 | 0.0066 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |
| Thionazin | 0.0092 | U | 0.033 | 0.0092 | mg/Kg | | 01/21/14 11:27 | 01/30/14 19:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Triphenylphosphate* | *83* | | *30 - 164* | *01/21/14 11:27* | *01/30/14 19:35* | *1* |

**Lab Sample ID: MB 400-205180/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206210** — **Prep Batch: 205180**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Coumaphos | 0.013 | U | 0.33 | 0.013 | mg/Kg | | 01/21/14 11:27 | 01/31/14 19:42 | 1 |
| Famphur | 0.0085 | U | 0.066 | 0.0085 | mg/Kg | | 01/21/14 11:27 | 01/31/14 19:42 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: MB 400-205180/14-A**
**Matrix: Solid**
**Analysis Batch: 206210**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 205180**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Triphenylphosphate | 88 | | 30 - 164 | 01/21/14 11:27 | 01/31/14 19:42 | 1 |

**Lab Sample ID: LCS 400-205180/13-A**
**Matrix: Solid**
**Analysis Batch: 205698**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 205180**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bolstar | 0.166 | 0.142 | | mg/Kg | | 85 | 40 - 156 |
| Chlorpyrifos | 0.166 | 0.154 | | mg/Kg | | 93 | 22 - 130 |
| Coumaphos | 0.166 | 0.112 | I | mg/Kg | | 67 | 51 - 147 |
| Diazinon | 0.166 | 0.137 | | mg/Kg | | 83 | 41 - 130 |
| Dichlorvos | 0.166 | 0.193 | | mg/Kg | | 116 | 10 - 130 |
| Disulfoton | 0.166 | 0.131 | | mg/Kg | | 79 | 10 - 134 |
| Ethoprop | 0.166 | 0.156 | | mg/Kg | | 94 | 30 - 130 |
| Fensulfothion | 0.166 | 0.119 | I | mg/Kg | | 72 | 43 - 145 |
| Fenthion | 0.166 | 0.152 | | mg/Kg | | 91 | 10 - 130 |
| Methyl parathion | 0.166 | 0.123 | | mg/Kg | | 74 | 36 - 149 |
| Mevinphos | 0.166 | 0.134 | | mg/Kg | | 81 | 30 - 130 |
| Phorate | 0.166 | 0.140 | | mg/Kg | | 84 | 36 - 130 |
| Ronnel | 0.166 | 0.147 | | mg/Kg | | 88 | 30 - 130 |
| Stirophos | 0.166 | 0.124 | | mg/Kg | | 75 | 36 - 130 |
| Terbutryn | 0.166 | 0.170 | | mg/Kg | | 102 | 30 - 130 |
| Tokuthion | 0.166 | 0.152 | | mg/Kg | | 92 | 14 - 130 |
| Dimethoate | 0.166 | 0.156 | | mg/Kg | | 94 | 38 - 130 |
| EPN | 0.166 | 0.151 | | mg/Kg | | 91 | 48 - 124 |
| Ethyl Parathion | 0.166 | 0.185 | | mg/Kg | | 111 | 24 - 151 |
| Malathion | 0.166 | 0.180 | | mg/Kg | | 108 | 10 - 141 |
| Sulfotepp | 0.166 | 0.152 | | mg/Kg | | 92 | 13 - 171 |
| Famphur | 0.166 | 0.133 | | mg/Kg | | 80 | 10 - 130 |
| Thionazin | 0.167 | 0.175 | | mg/Kg | | 105 | 10 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| Triphenylphosphate | 105 | | 30 - 164 |

**Lab Sample ID: 400-85591-6 MS**
**Matrix: Solid**
**Analysis Batch: 205698**

**Client Sample ID: 03-SS-06**
**Prep Type: Total/NA**
**Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | | 0.187 | 0.146 | | mg/Kg | ☼ | 78 | 40 - 156 |
| Chlorpyrifos | 0.0085 | | 0.187 | 0.129 | | mg/Kg | ☼ | 69 | 22 - 130 |
| Coumaphos | 0.015 | U | 0.187 | 0.146 | I | mg/Kg | ☼ | 78 | 51 - 147 |
| Diazinon | 0.017 | | 0.187 | 0.150 | | mg/Kg | ☼ | 80 | 41 - 130 |
| Dichlorvos | 0.0078 | | 0.187 | 0.213 | | mg/Kg | ☼ | 114 | 10 - 130 |
| Disulfoton | 0.0070 | | 0.187 | 0.113 | | mg/Kg | ☼ | 61 | 10 - 134 |
| Ethoprop | 0.012 | | 0.187 | 0.178 | | mg/Kg | ☼ | 95 | 30 - 130 |
| Fensulfothion | 0.012 | | 0.187 | 0.126 | I | mg/Kg | ☼ | 68 | 43 - 145 |
| Fenthion | 0.0086 | | 0.187 | 0.253 | J3 | mg/Kg | ☼ | 135 | 10 - 128 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: 400-85591-6 MS** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Methyl parathion | 0.0086 | | 0.187 | 0.153 | | mg/Kg | ☼ | 82 | 36 - 149 |
| Mevinphos | 0.015 | | 0.187 | 0.151 | | mg/Kg | ☼ | 81 | 30 - 130 |
| Phorate | 0.011 | | 0.187 | 0.153 | | mg/Kg | ☼ | 82 | 36 - 130 |
| Ronnel | 0.0083 | | 0.187 | 0.188 | | mg/Kg | ☼ | 100 | 30 - 130 |
| Stirophos | 0.020 | | 0.187 | 0.267 | J3 | mg/Kg | ☼ | 143 | 36 - 126 |
| Terbutryn | 0.0094 | | 0.187 | 0.0093 | U J3 | mg/Kg | ☼ | 0 | 30 - 130 |
| Tokuthion | 0.024 | | 0.187 | 0.352 | J3 | mg/Kg | ☼ | 188 | 14 - 130 |
| Dimethoate | 0.0092 | | 0.187 | 0.194 | | mg/Kg | ☼ | 104 | 38 - 130 |
| EPN | 0.0091 | | 0.187 | 0.142 | | mg/Kg | ☼ | 76 | 48 - 124 |
| Ethyl Parathion | 0.0095 | | 0.187 | 0.257 | | mg/Kg | ☼ | 137 | 24 - 151 |
| Malathion | 0.14 | | 0.187 | 0.204 | | mg/Kg | ☼ | 34 | 10 - 141 |
| Sulfotepp | 0.0074 | | 0.187 | 0.127 | | mg/Kg | ☼ | 68 | 13 - 171 |
| Famphur | 0.0096 | U | 0.187 | 0.109 | | mg/Kg | ☼ | 58 | 10 - 130 |
| Thionazin | 0.010 | | 0.188 | 0.181 | | mg/Kg | ☼ | 96 | 10 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Triphenylphosphate* | *128* | | *30 - 164* |

**Lab Sample ID: 400-85591-6 MSD** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bolstar | 0.0074 | | 0.187 | 0.138 | | mg/Kg | ☼ | 74 | 40 - 156 | 5 | 40 |
| Chlorpyrifos | 0.0085 | | 0.187 | 0.0084 | U J3 | mg/Kg | ☼ | 0 | 22 - 130 | NC | 40 |
| Coumaphos | 0.015 | U | 0.187 | 0.130 | I | mg/Kg | ☼ | 69 | 51 - 147 | 12 | 40 |
| Diazinon | 0.017 | | 0.187 | 0.136 | | mg/Kg | ☼ | 73 | 41 - 130 | 9 | 30 |
| Dichlorvos | 0.0078 | | 0.187 | 0.196 | | mg/Kg | ☼ | 105 | 10 - 130 | 8 | 40 |
| Disulfoton | 0.0070 | | 0.187 | 0.112 | | mg/Kg | ☼ | 60 | 10 - 134 | 1 | 93 |
| Ethoprop | 0.012 | | 0.187 | 0.152 | | mg/Kg | ☼ | 81 | 30 - 130 | 16 | 40 |
| Fensulfothion | 0.012 | | 0.187 | 0.147 | I | mg/Kg | ☼ | 79 | 43 - 145 | 15 | 40 |
| Fenthion | 0.0086 | | 0.187 | 0.277 | J3 | mg/Kg | ☼ | 148 | 10 - 128 | 9 | 60 |
| Methyl parathion | 0.0086 | | 0.187 | 0.267 | J3 | mg/Kg | ☼ | 143 | 36 - 149 | 54 | 40 |
| Mevinphos | 0.015 | | 0.187 | 0.127 | | mg/Kg | ☼ | 68 | 30 - 130 | 17 | 40 |
| Phorate | 0.011 | | 0.187 | 0.129 | | mg/Kg | ☼ | 69 | 36 - 130 | 17 | 40 |
| Ronnel | 0.0083 | | 0.187 | 0.205 | | mg/Kg | ☼ | 110 | 30 - 130 | 9 | 40 |
| Stirophos | 0.020 | | 0.187 | 0.107 | J3 | mg/Kg | ☼ | 57 | 36 - 126 | 86 | 40 |
| Terbutryn | 0.0094 | | 0.187 | 0.0093 | U J3 | mg/Kg | ☼ | 0 | 30 - 130 | NC | 40 |
| Tokuthion | 0.024 | | 0.187 | 0.429 | J3 | mg/Kg | ☼ | 229 | 14 - 130 | 20 | 40 |
| Dimethoate | 0.0092 | | 0.187 | 0.170 | | mg/Kg | ☼ | 91 | 38 - 130 | 13 | 40 |
| EPN | 0.0091 | | 0.187 | 0.139 | | mg/Kg | ☼ | 74 | 48 - 124 | 3 | 30 |
| Ethyl Parathion | 0.0095 | | 0.187 | 0.226 | | mg/Kg | ☼ | 121 | 24 - 151 | 13 | 79 |
| Malathion | 0.14 | | 0.187 | 0.270 | | mg/Kg | ☼ | 70 | 10 - 141 | 28 | 40 |
| Sulfotepp | 0.0074 | | 0.187 | 0.115 | | mg/Kg | ☼ | 62 | 13 - 171 | 10 | 65 |
| Famphur | 0.0096 | U | 0.187 | 0.110 | | mg/Kg | ☼ | 59 | 10 - 130 | 1 | 60 |
| Thionazin | 0.010 | | 0.188 | 0.155 | | mg/Kg | ☼ | 82 | 10 - 130 | 16 | 60 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8141A - Organophosphorous Pesticides (GC/MS) (Continued)

**Lab Sample ID: 400-85591-6 MSD** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205698** — **Prep Batch: 205180**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *Triphenylphosphate* | *118* | | *30 - 164* |

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

**Lab Sample ID: MB 400-205462/12-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205507** — **Prep Batch: 205462**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Acenaphthylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Benzo[a]anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Benzo[a]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Benzo[b]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Benzo[g,h,i]perylene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Benzo[k]fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Chrysene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Dibenz(a,h)anthracene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Fluoranthene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Fluorene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Naphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Phenanthrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| Pyrene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| 1-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |
| 2-Methylnaphthalene | 0.010 | U | 0.33 | 0.010 | mg/Kg | | 01/23/14 09:32 | 01/24/14 18:40 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *92* | | *44 - 108* | *01/23/14 09:32* | *01/24/14 18:40* | *1* |
| *Nitrobenzene-d5 (Surr)* | *84* | | *27 - 114* | *01/23/14 09:32* | *01/24/14 18:40* | *1* |
| *Terphenyl-d14 (Surr)* | *96* | | *36 - 134* | *01/23/14 09:32* | *01/24/14 18:40* | *1* |

**Lab Sample ID: LCS 400-205462/11-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205507** — **Prep Batch: 205462**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.37 | | mg/Kg | | 82 | 62 - 120 |
| Acenaphthylene | 1.67 | 1.29 | | mg/Kg | | 78 | 61 - 120 |
| Anthracene | 1.67 | 1.51 | | mg/Kg | | 91 | 68 - 120 |
| Benzo[a]anthracene | 1.67 | 1.54 | | mg/Kg | | 92 | 67 - 120 |
| Benzo[a]pyrene | 1.67 | 1.55 | | mg/Kg | | 93 | 64 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.58 | | mg/Kg | | 95 | 58 - 121 |
| Benzo[g,h,i]perylene | 1.67 | 1.20 | | mg/Kg | | 72 | 49 - 151 |
| Benzo[k]fluoranthene | 1.67 | 1.50 | | mg/Kg | | 90 | 61 - 123 |
| Chrysene | 1.67 | 1.51 | | mg/Kg | | 91 | 65 - 120 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

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

**Lab Sample ID: LCS 400-205462/11-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205507** — **Prep Batch: 205462**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | 1.67 | 1.45 | | mg/Kg | | 87 | 58 - 130 |
| Fluoranthene | 1.67 | 1.55 | | mg/Kg | | 93 | 67 - 123 |
| Fluorene | 1.67 | 1.45 | | mg/Kg | | 87 | 64 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.35 | | mg/Kg | | 81 | 55 - 133 |
| Naphthalene | 1.67 | 2.35 | J3 | mg/Kg | | 141 | 59 - 120 |
| Phenanthrene | 1.67 | 1.52 | | mg/Kg | | 91 | 62 - 130 |
| Pyrene | 1.67 | 1.28 | | mg/Kg | | 77 | 57 - 127 |
| 1-Methylnaphthalene | 1.67 | 1.46 | | mg/Kg | | 88 | 66 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.49 | | mg/Kg | | 89 | 64 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *78* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *79* | | *36 - 134* |

**Lab Sample ID: 400-85630-A-1-L MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205507** — **Prep Batch: 205462**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 11 | | 19.8 | 29.4 | I | mg/Kg | | 95 | 10 - 150 |
| Acenaphthylene | 11 | | 19.8 | 26.7 | I | mg/Kg | | 81 | 10 - 150 |
| Anthracene | 4.4 | | 19.8 | 21.2 | I | mg/Kg | | 85 | 10 - 150 |
| Benzo[a]anthracene | 3.3 | | 19.8 | 20.2 | I | mg/Kg | | 85 | 10 - 150 |
| Benzo[a]pyrene | 2.4 | | 19.8 | 19.6 | I | mg/Kg | | 87 | 10 - 150 |
| Benzo[b]fluoranthene | 1.2 | | 19.8 | 20.7 | I | mg/Kg | | 104 | 10 - 150 |
| Benzo[g,h,i]perylene | 1.5 | | 19.8 | 9.21 | I | mg/Kg | | 39 | 10 - 150 |
| Benzo[k]fluoranthene | 1.2 | | 19.8 | 17.8 | I | mg/Kg | | 90 | 10 - 150 |
| Chrysene | 2.5 | | 19.8 | 20.2 | I | mg/Kg | | 90 | 10 - 150 |
| Dibenz(a,h)anthracene | 1.2 | | 19.8 | 10.5 | I | mg/Kg | | 53 | 32 - 111 |
| Fluoranthene | 6.6 | | 19.8 | 26.0 | I | mg/Kg | | 98 | 10 - 150 |
| Fluorene | 29 | | 19.8 | 54.8 | | mg/Kg | | 132 | 10 - 150 |
| Indeno[1,2,3-cd]pyrene | 1.4 | | 19.8 | 10.4 | I | mg/Kg | | 45 | 10 - 150 |
| Naphthalene | 410 | | 19.8 | 536 | L J3 | mg/Kg | | 643 | 10 - 150 |
| Phenanthrene | 30 | | 19.8 | 53.0 | | mg/Kg | | 115 | 10 - 150 |
| Pyrene | 12 | | 19.8 | 29.9 | I | mg/Kg | | 89 | 10 - 150 |
| 1-Methylnaphthalene | 450 | | 19.8 | 637 | L J3 | mg/Kg | | 952 | 10 - 150 |
| 2-Methylnaphthalene | 860 | | 19.8 | 1170 | L J3 | mg/Kg | | 1564 | 10 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *74* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *73* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *80* | | *36 - 134* |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

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

**Lab Sample ID: 400-85630-A-1-M MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205507** — **Prep Batch: 205462**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 11 | | 19.5 | 22.1 | I | mg/Kg | | 60 | 10 - 150 | 28 | 36 |
| Acenaphthylene | 11 | | 19.5 | 20.8 | I | mg/Kg | | 52 | 10 - 150 | 25 | 29 |
| Anthracene | 4.4 | | 19.5 | 18.8 | I | mg/Kg | | 74 | 10 - 150 | 12 | 30 |
| Benzo[a]anthracene | 3.3 | | 19.5 | 17.9 | I | mg/Kg | | 75 | 10 - 150 | 12 | 33 |
| Benzo[a]pyrene | 2.4 | | 19.5 | 17.0 | I | mg/Kg | | 75 | 10 - 150 | 14 | 30 |
| Benzo[b]fluoranthene | 1.2 | | 19.5 | 18.6 | I | mg/Kg | | 96 | 10 - 150 | 10 | 31 |
| Benzo[g,h,i]perylene | 1.5 | | 19.5 | 9.37 | I | mg/Kg | | 40 | 10 - 150 | 2 | 30 |
| Benzo[k]fluoranthene | 1.2 | | 19.5 | 16.4 | I | mg/Kg | | 84 | 10 - 150 | 8 | 29 |
| Chrysene | 2.5 | | 19.5 | 17.8 | I | mg/Kg | | 79 | 10 - 150 | 13 | 33 |
| Dibenz(a,h)anthracene | 1.2 | | 19.5 | 11.0 | I | mg/Kg | | 57 | 32 - 111 | 5 | 30 |
| Fluoranthene | 6.6 | | 19.5 | 20.9 | I | mg/Kg | | 74 | 10 - 150 | 22 | 42 |
| Fluorene | 29 | | 19.5 | 39.7 | | mg/Kg | | 57 | 10 - 150 | 32 | 36 |
| Indeno[1,2,3-cd]pyrene | 1.4 | | 19.5 | 10.6 | I | mg/Kg | | 47 | 10 - 150 | 2 | 31 |
| Naphthalene | 410 | | 19.5 | 378 | J3 | mg/Kg | | -159 | 10 - 150 | 35 | 33 |
| Phenanthrene | 30 | | 19.5 | 37.8 | I | mg/Kg | | 39 | 10 - 150 | 34 | 34 |
| Pyrene | 12 | | 19.5 | 23.6 | I | mg/Kg | | 59 | 10 - 150 | 23 | 45 |
| 1-Methylnaphthalene | 450 | | 19.5 | 406 | L J3 | mg/Kg | | -219 | 10 - 150 | 44 | 29 |
| 2-Methylnaphthalene | 860 | | 19.5 | 747 | L J3 | mg/Kg | | -561 | 10 - 150 | 44 | 32 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *72* | | *44 - 108* |
| *Nitrobenzene-d5 (Surr)* | *71* | | *27 - 114* |
| *Terphenyl-d14 (Surr)* | *82* | | *36 - 134* |

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| alpha-BHC | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| beta-BHC | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| delta-BHC | 0.000035 | U | 0.00085 | 0.000035 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| gamma-BHC (Lindane) | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| alpha-Chlordane | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| gamma-Chlordane | 0.000048 | U | 0.00085 | 0.000048 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDD | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDE | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| 4,4'-DDT | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Dieldrin | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan I | 0.000080 | U | 0.00085 | 0.000080 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan II | 0.000041 | U | 0.00085 | 0.000041 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endosulfan sulfate | 0.00013 | U | 0.00085 | 0.00013 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endrin | 0.000039 | U | 0.00085 | 0.000039 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Endrin aldehyde | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 400-205185/25-B** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Endrin ketone | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Heptachlor | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Heptachlor epoxide | 0.000050 | U | 0.00085 | 0.000050 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Methoxychlor | 0.00014 | U | 0.00085 | 0.00014 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |
| Toxaphene | 0.0085 | U | 0.050 | 0.0085 | mg/Kg | | 01/21/14 11:39 | 01/24/14 14:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *129* | | *47 - 148* | *01/21/14 11:39* | *01/24/14 14:48* | *1* |
| *Tetrachloro-m-xylene* | *128* | | *65 - 134* | *01/21/14 11:39* | *01/24/14 14:48* | *1* |

**Lab Sample ID: LCS 400-205185/23-B** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aldrin | 0.0166 | 0.0148 | | mg/Kg | | 89 | 58 - 150 |
| alpha-BHC | 0.0166 | 0.0156 | | mg/Kg | | 94 | 58 - 150 |
| beta-BHC | 0.0166 | 0.0141 | | mg/Kg | | 85 | 57 - 150 |
| delta-BHC | 0.0166 | 0.0155 | | mg/Kg | | 93 | 57 - 150 |
| gamma-BHC (Lindane) | 0.0166 | 0.0152 | | mg/Kg | | 92 | 51 - 150 |
| alpha-Chlordane | 0.0166 | 0.0137 | | mg/Kg | | 82 | 61 - 150 |
| gamma-Chlordane | 0.0166 | 0.0144 | | mg/Kg | | 86 | 60 - 150 |
| 4,4'-DDD | 0.0166 | 0.0113 | | mg/Kg | | 68 | 56 - 150 |
| 4,4'-DDE | 0.0166 | 0.0150 | | mg/Kg | | 90 | 64 - 150 |
| 4,4'-DDT | 0.0166 | 0.0157 | | mg/Kg | | 94 | 52 - 150 |
| Dieldrin | 0.0166 | 0.0151 | | mg/Kg | | 90 | 66 - 150 |
| Endosulfan I | 0.0166 | 0.0121 | | mg/Kg | | 73 | 63 - 150 |
| Endosulfan II | 0.0166 | 0.0131 | | mg/Kg | | 79 | 61 - 150 |
| Endosulfan sulfate | 0.0166 | 0.0153 | | mg/Kg | | 92 | 55 - 150 |
| Endrin | 0.0166 | 0.0137 | | mg/Kg | | 82 | 65 - 150 |
| Endrin aldehyde | 0.0166 | 0.0140 | | mg/Kg | | 84 | 39 - 150 |
| Endrin ketone | 0.0166 | 0.0153 | | mg/Kg | | 92 | 53 - 150 |
| Heptachlor | 0.0166 | 0.0146 | | mg/Kg | | 88 | 58 - 150 |
| Heptachlor epoxide | 0.0166 | 0.0146 | | mg/Kg | | 87 | 64 - 150 |
| Methoxychlor | 0.0166 | 0.0153 | | mg/Kg | | 92 | 46 - 150 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *86* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *81* | | *65 - 134* |

**Lab Sample ID: 400-85526-A-5-L MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.0183 | 0.0203 | | mg/Kg | ☼ | 111 | 47 - 135 |
| alpha-BHC | 0.000045 | U | 0.0183 | 0.0209 | | mg/Kg | ☼ | 114 | 61 - 126 |
| beta-BHC | 0.000055 | U | 0.0183 | 0.0177 | | mg/Kg | ☼ | 97 | 53 - 129 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 400-85526-A-5-L MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| delta-BHC | 0.000039 | U | 0.0183 | 0.0200 | | mg/Kg | ☼ | 109 | 59 - 138 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.0183 | 0.0204 | | mg/Kg | ☼ | 111 | 60 - 125 |
| alpha-Chlordane | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 104 | 10 - 150 |
| gamma-Chlordane | 0.000054 | U | 0.0183 | 0.0196 | | mg/Kg | ☼ | 107 | 10 - 150 |
| 4,4'-DDD | 0.000055 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 10 - 150 |
| 4,4'-DDE | 0.000055 | U * | 0.0183 | 0.0209 | | mg/Kg | ☼ | 114 | 49 - 141 |
| 4,4'-DDT | 0.000055 | U | 0.0183 | 0.0224 | | mg/Kg | ☼ | 122 | 46 - 150 |
| Dieldrin | 0.000055 | U | 0.0183 | 0.0203 | | mg/Kg | ☼ | 111 | 10 - 150 |
| Endosulfan I | 0.000088 | U | 0.0183 | 0.0158 | | mg/Kg | ☼ | 86 | 10 - 150 |
| Endosulfan II | 0.000046 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 54 - 135 |
| Endosulfan sulfate | 0.00014 | U | 0.0183 | 0.0121 | | mg/Kg | ☼ | 66 | 54 - 144 |
| Endrin | 0.000043 | U | 0.0183 | 0.0188 | | mg/Kg | ☼ | 102 | 55 - 146 |
| Endrin aldehyde | 0.000055 | U | 0.0183 | 0.00676 | J3 | mg/Kg | ☼ | 37 | 50 - 150 |
| Endrin ketone | 0.000055 | U | 0.0183 | 0.0180 | | mg/Kg | ☼ | 98 | 54 - 142 |
| Heptachlor | 0.000055 | U | 0.0183 | 0.0208 | | mg/Kg | ☼ | 114 | 10 - 150 |
| Heptachlor epoxide | 0.000055 | U | 0.0183 | 0.0198 | | mg/Kg | ☼ | 108 | 62 - 134 |
| Methoxychlor | 0.00016 | U | 0.0183 | 0.0206 | | mg/Kg | ☼ | 112 | 50 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *102* | | *47 - 148* |
| *Tetrachloro-m-xylene* | *99* | | *65 - 134* |

**Lab Sample ID: 400-85526-A-5-M MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.000055 | U | 0.0183 | 0.0190 | | mg/Kg | ☼ | 104 | 47 - 135 | 7 | 66 |
| alpha-BHC | 0.000045 | U | 0.0183 | 0.0198 | | mg/Kg | ☼ | 108 | 61 - 126 | 5 | 19 |
| beta-BHC | 0.000055 | U | 0.0183 | 0.0168 | | mg/Kg | ☼ | 92 | 53 - 129 | 5 | 30 |
| delta-BHC | 0.000039 | U | 0.0183 | 0.0193 | | mg/Kg | ☼ | 105 | 59 - 138 | 3 | 31 |
| gamma-BHC (Lindane) | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 105 | 60 - 125 | 7 | 25 |
| alpha-Chlordane | 0.000055 | U | 0.0183 | 0.0179 | | mg/Kg | ☼ | 98 | 10 - 150 | 6 | 42 |
| gamma-Chlordane | 0.000054 | U | 0.0183 | 0.0185 | | mg/Kg | ☼ | 101 | 10 - 150 | 6 | 46 |
| 4,4'-DDD | 0.000055 | U | 0.0183 | 0.0173 | | mg/Kg | ☼ | 94 | 10 - 150 | 4 | 106 |
| 4,4'-DDE | 0.000055 | U * | 0.0183 | 0.0201 | | mg/Kg | ☼ | 110 | 49 - 141 | 4 | 55 |
| 4,4'-DDT | 0.000055 | U | 0.0183 | 0.0218 | | mg/Kg | ☼ | 119 | 46 - 150 | 3 | 39 |
| Dieldrin | 0.000055 | U | 0.0183 | 0.0191 | | mg/Kg | ☼ | 104 | 10 - 150 | 6 | 38 |
| Endosulfan I | 0.000088 | U | 0.0183 | 0.0148 | | mg/Kg | ☼ | 81 | 10 - 150 | 7 | 62 |
| Endosulfan II | 0.000046 | U | 0.0183 | 0.0171 | | mg/Kg | ☼ | 93 | 54 - 135 | 5 | 30 |
| Endosulfan sulfate | 0.00014 | U | 0.0183 | 0.0112 | | mg/Kg | ☼ | 61 | 54 - 144 | 8 | 29 |
| Endrin | 0.000043 | U | 0.0183 | 0.0179 | | mg/Kg | ☼ | 98 | 55 - 146 | 5 | 30 |
| Endrin aldehyde | 0.000055 | U | 0.0183 | 0.00640 | J3 | mg/Kg | ☼ | 35 | 50 - 150 | 5 | 38 |
| Endrin ketone | 0.000055 | U | 0.0183 | 0.0160 | | mg/Kg | ☼ | 87 | 54 - 142 | 12 | 28 |
| Heptachlor | 0.000055 | U | 0.0183 | 0.0206 | | mg/Kg | ☼ | 113 | 10 - 150 | 1 | 33 |
| Heptachlor epoxide | 0.000055 | U | 0.0183 | 0.0186 | | mg/Kg | ☼ | 102 | 62 - 134 | 7 | 26 |
| Methoxychlor | 0.00016 | U | 0.0183 | 0.0199 | | mg/Kg | ☼ | 109 | 50 - 150 | 3 | 36 |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 400-85526-A-5-M MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205926** — **Prep Batch: 205185**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 99 | | 47 - 148 |
| Tetrachloro-m-xylene | 96 | | 65 - 134 |

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 400-205142/18-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.011 | U | 0.20 | 0.011 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4-DB | 0.0070 | U | 0.015 | 0.0070 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| 2,4,5-T | 0.0034 | U | 0.040 | 0.0034 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Silvex (2,4,5-TP) | 0.017 | U | 0.040 | 0.017 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dalapon | 0.071 | U | 1.2 | 0.071 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dicamba | 0.0012 | U | 0.060 | 0.0012 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dichlorprop | 0.0033 | U | 0.13 | 0.0033 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| Dinoseb | 0.0043 | U | 0.20 | 0.0043 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPA | 0.87 | U | 50 | 0.87 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |
| MCPP | 0.40 | U | 50 | 0.40 | mg/Kg | | 01/21/14 08:33 | 01/23/14 10:22 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4-Dichlorophenylacetic acid | 71 | | 10 - 150 | 01/21/14 08:33 | 01/23/14 10:22 | 1 |

**Lab Sample ID: LCS 400-205142/17-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.166 | 0.151 | | mg/Kg | | 91 | 16 - 117 |
| 2,4,5-T | 0.0166 | 0.0187 | I J3 | mg/Kg | | 112 | 40 - 105 |
| Silvex (2,4,5-TP) | 0.0166 | 0.017 | U | mg/Kg | | 89 | 34 - 97 |
| Dalapon | 0.416 | 0.287 | I | mg/Kg | | 69 | 10 - 115 |
| Dicamba | 0.0166 | 0.0146 | I | mg/Kg | | 88 | 10 - 141 |
| Dichlorprop | 0.166 | 0.136 | | mg/Kg | | 82 | 28 - 102 |
| Dinoseb | 0.0832 | 0.0469 | I | mg/Kg | | 56 | 10 - 71 |
| MCPA | 16.6 | 13.1 | I | mg/Kg | | 78 | 10 - 112 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 2,4-Dichlorophenylacetic acid | 84 | | 10 - 150 |

**Lab Sample ID: 400-85591-6 MS** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.187 | 0.0922 | | mg/Kg | ☼ | 49 | 10 - 88 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: 400-85591-6 MS** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 0.0038 | U J3 | 0.0187 | 0.0159 | I | mg/Kg | ☼ | 85 | 10 - 107 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0187 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 |
| Dalapon | 0.080 | U | 0.467 | 0.238 | I | mg/Kg | ☼ | 51 | 10 - 126 |
| Dicamba | 0.0014 | U | 0.0187 | 0.0132 | I | mg/Kg | ☼ | 71 | 10 - 150 |
| Dichlorprop | 0.0037 | U | 0.187 | 0.119 | I | mg/Kg | ☼ | 63 | 10 - 81 |
| Dinoseb | 0.0048 | U | 0.0934 | 0.0603 | I J3 | mg/Kg | ☼ | 65 | 10 - 64 |
| MCPA | 0.98 | U | 18.7 | 11.1 | I | mg/Kg | ☼ | 59 | 10 - 101 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *95* | | *10 - 150* |

**Lab Sample ID: 400-85591-6 MSD** — **Client Sample ID: 03-SS-06**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205583** — **Prep Batch: 205142**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 0.0079 | U | 0.188 | 0.0956 | | mg/Kg | ☼ | 51 | 10 - 88 | 4 | 109 |
| 2,4,5-T | 0.0038 | U J3 | 0.0188 | 0.0176 | I | mg/Kg | ☼ | 94 | 10 - 107 | 10 | 121 |
| Silvex (2,4,5-TP) | 0.019 | U | 0.0188 | 0.019 | U | mg/Kg | ☼ | NC | 10 - 111 | NC | 102 |
| Dalapon | 0.080 | U | 0.471 | 0.315 | I | mg/Kg | ☼ | 67 | 10 - 126 | 28 | 76 |
| Dicamba | 0.0014 | U | 0.0188 | 0.0166 | I | mg/Kg | ☼ | 88 | 10 - 150 | 23 | 159 |
| Dichlorprop | 0.0037 | U | 0.188 | 0.122 | I | mg/Kg | ☼ | 65 | 10 - 81 | 3 | 96 |
| Dinoseb | 0.0048 | U | 0.0942 | 0.0475 | I | mg/Kg | ☼ | 50 | 10 - 64 | 24 | 99 |
| MCPA | 0.98 | U | 18.8 | 12.9 | I | mg/Kg | ☼ | 69 | 10 - 101 | 15 | 134 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *80* | | *10 - 150* |

## Method: 9056 - Anions, Ion Chromatography

**Lab Sample ID: MB 400-205034/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 205504**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as N | 0.33 | U | 1.0 | 0.33 | mg/Kg | | | 01/21/14 20:14 | 1 |
| Nitrite as N | 0.33 | U | 1.0 | 0.33 | mg/Kg | | | 01/21/14 20:14 | 1 |
| Nitrate Nitrite as N | 0.33 | U | 1.0 | 0.33 | mg/Kg | | | 01/21/14 20:14 | 1 |

**Lab Sample ID: 400-85591-1 MS** — **Client Sample ID: 03-SS-01**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 205504**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as N | 15 | | 27.2 | 45.1 | | mg/Kg | ☼ | 111 | 80 - 120 |
| Nitrite as N | 15 | | 36.6 | 32.6 | J3 | mg/Kg | ☼ | 49 | 80 - 120 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 9056 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 400-85591-1 MSD** — **Client Sample ID: 03-SS-01**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 205504**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate as N | 15 | | 28.1 | 47.4 | | mg/Kg | ☼ | 115 | 80 - 120 | 5 | 15 |
| Nitrite as N | 15 | | 37.8 | 32.9 | J3 | mg/Kg | ☼ | 48 | 80 - 120 | 1 | 15 |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 400-205202/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206287** — **Prep Batch: 205202**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.37 | U | 0.46 | 0.37 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Barium | 0.19 | U | 0.93 | 0.19 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Cadmium | 0.093 | U | 0.46 | 0.093 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Chromium | 0.19 | U | 0.93 | 0.19 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Lead | 0.19 | U | 0.46 | 0.19 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Selenium | 0.37 | U | 0.93 | 0.37 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |
| Silver | 0.19 | U | 0.46 | 0.19 | mg/Kg | | 01/22/14 10:30 | 01/31/14 18:19 | 1 |

**Lab Sample ID: LCS 400-205202/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206287** — **Prep Batch: 205202**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 151 | 144 | | mg/Kg | | 95 | 81 - 120 |
| Barium | 262 | 260 | | mg/Kg | | 99 | 83 - 117 |
| Cadmium | 152 | 152 | | mg/Kg | | 100 | 82 - 118 |
| Chromium | 117 | 118 | | mg/Kg | | 101 | 79 - 121 |
| Lead | 254 | 266 | | mg/Kg | | 105 | 81 - 119 |
| Selenium | 162 | 146 | | mg/Kg | | 90 | 77 - 122 |
| Silver | 44.3 | 42.3 | | mg/Kg | | 96 | 74 - 126 |

**Lab Sample ID: 400-85591-1 MS** — **Client Sample ID: 03-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206287** — **Prep Batch: 205202**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.1 | | 115 | 108 | | mg/Kg | ☼ | 93 | 75 - 125 |
| Barium | 36 | | 115 | 137 | | mg/Kg | ☼ | 87 | 75 - 125 |
| Cadmium | 0.16 | I | 57.4 | 56.3 | | mg/Kg | ☼ | 98 | 75 - 125 |
| Chromium | 17 | | 115 | 120 | | mg/Kg | ☼ | 90 | 75 - 125 |
| Lead | 7.7 | | 115 | 120 | | mg/Kg | ☼ | 98 | 75 - 125 |
| Selenium | 1.6 | | 115 | 104 | | mg/Kg | ☼ | 89 | 75 - 125 |
| Silver | 0.23 | U | 57.4 | 56.5 | | mg/Kg | ☼ | 98 | 75 - 125 |

# QC Sample Results

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 400-85591-1 MSD** — **Client Sample ID: 03-SS-01**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 206287** — **Prep Batch: 205202**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.1 | | 113 | 107 | | mg/Kg | ☼ | 93 | 75 - 125 | 1 | 20 |
| Barium | 36 | | 113 | 145 | | mg/Kg | ☼ | 96 | 75 - 125 | 6 | 20 |
| Cadmium | 0.16 | I | 56.7 | 56.6 | | mg/Kg | ☼ | 100 | 75 - 125 | 1 | 20 |
| Chromium | 17 | | 113 | 126 | | mg/Kg | ☼ | 96 | 75 - 125 | 5 | 20 |
| Lead | 7.7 | | 113 | 122 | | mg/Kg | ☼ | 101 | 75 - 125 | 2 | 20 |
| Selenium | 1.6 | | 113 | 103 | | mg/Kg | ☼ | 89 | 75 - 125 | 1 | 20 |
| Silver | 0.23 | U | 56.7 | 53.8 | | mg/Kg | ☼ | 95 | 75 - 125 | 5 | 20 |

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 400-205147/14-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.023 | U | 0.039 | 0.023 | mg/Kg | | 01/21/14 09:03 | 01/22/14 11:57 | 1 |

**Lab Sample ID: LCS 400-205147/15-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 5.76 | 4.73 | | mg/Kg | | 82 | 80 - 120 |

**Lab Sample ID: 400-85522-A-1-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.183 | 0.188 | | mg/Kg | ☼ | 86 | 75 - 125 |

**Lab Sample ID: 400-85522-A-1-F MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 205374** — **Prep Batch: 205147**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.030 | | 0.180 | 0.188 | | mg/Kg | ☼ | 88 | 75 - 125 | 0 | 20 |

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Client Information**
Client Contact: Mr. John Barksdale
Company: Barksdale & Associates
Address: 105 South G Street
City: Pensacola
State, Zip: FL, 32502
Phone: 850-291-4704(Tel)
Email: john@barksdaleandassociates.com
Project Name: VIIS Caneel Bay Resort
Site:

Sampler: John Barksdale
Phone:
Due Date Requested:
TAT Requested (days): 2 weeks
PO #: Purchase Order not required
WO #:
Project #: 40000008
SSOW#:

Lab PM: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com
Carrier Tracking No(s):
COC No: 400-31086-17742.3
Page:
Job #:

400-85591 COC

**Analysis Request**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C/7471A-RCRA 8 | 8081-OC Pests | 8141-OP Pests | 8151A - Herbicides | 9056_ORGFM-Nitrate/Nitrite | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | X | X | N | N | N | N | N | X | |
| 03-SS-01 | | 1340 | G | Solid | N | N | X | X | X | X | X | 2 | 1 402 1402 |
| 03-SS-02 | | 1350 | G | Solid | | | | | | | | | |
| 03-SS-03 | | 1410 | C | Solid | | | | | | | | | |
| 03-SS-04 | | 1440 | G | Solid | | | | | | | | | |
| 03-SS-05 | | 1510 | | Solid | | | | | | | | | |
| 03-SS-06 | | 1525 | | Solid | | | | | | | | | |

**Possible Hazard Identification**
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/17/14 0845 | BOA | [illegible] | 1-18-14 9:28 | |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.5 C IR

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: John Barksdale | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-31086-17742.2 |
|---|---|---|---|---|
| Client Contact: Mr. John Barksdale | Phone: | E-Mail: cheyenne.whitmire@testamericainc.com | | Page: |
| Company: Barksdale & Associates | | | | Job #: |
| Address: 105 South G Street | Due Date Requested: | | | |
| City: Pensacola | TAT Requested (days): 2 weeks | | | |
| State, Zip: FL, 32502 | | | | |
| Phone: 850-291-4704(Tel) | PO #: Purchase Order not required | | | |
| Email: john@barksdaleandassociates.com | WO #: | | | |
| Project Name: VIIS Caneel Bay Resort | Project #: 40000008 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260B - BTEX | 8270D - PAHs | 6010C-Lead | | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | | | | | | | | | | |
| 02-SU-01 | 1/13/14 | 1140 | G | Solid | N | N | X | X | X | | | | | | | | | 2 | 2 8oz glass |
| 02-SU-02 | 1/15/14 | 1115 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | 2 | 1 8oz 1 4oz |
| 02-SU-03 | 1/15/14 | 1115 | ↓ | Solid | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | 2 | 1 8oz 1 4oz |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | |
| ~~02~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | |
| ~~DUPLICATE~~ | | | | ~~Solid~~ | | | | | | | | | | | | | | | |

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| John Barksdale | 1/17/14 0845 | Barksdale | [illegible] | 1-18-14 9:25 | |
| | | | | | |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.5°C IR2

# Login Sample Receipt Checklist

Client: Barksdale & Associates

Job Number: 400-85591-1
SDG Number:

**Login Number: 85591**
**List Number: 1**
**Creator: Chea, Vandy**

**List Source: TestAmerica Pensacola**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.5°C IR2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Barksdale & Associates
Project/Site: VIIS CANEEL BAY RESORT

TestAmerica Job ID: 400-85591-1

## Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 40150 | 06-30-14 |
| Arkansas DEQ | State Program | 6 | 88-0689 | 09-01-14 |
| Florida | NELAP | 4 | E81010 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200041 | 10-09-14 |
| Iowa | State Program | 7 | 367 | 08-01-14 |
| Kansas | NELAP | 7 | E-10253 | 10-31-14 |
| Kentucky (UST) | State Program | 4 | 53 | 06-30-14 |
| Louisiana | NELAP | 6 | 30976 | 06-30-14 |
| Maryland | State Program | 3 | 233 | 09-30-14 |
| Massachusetts | State Program | 1 | M-FL094 | 06-30-14 |
| Michigan | State Program | 5 | 9912 | 05-04-14 |
| New Jersey | NELAP | 2 | FL006 | 06-30-14 |
| North Carolina DENR | State Program | 4 | 314 | 12-31-14 |
| Oklahoma | State Program | 6 | 9810 | 08-31-14 |
| Pennsylvania | NELAP | 3 | 68-00467 | 01-31-15 |
| Rhode Island | State Program | 1 | LAO00307 | 12-30-14 |
| South Carolina | State Program | 4 | 96026 | 06-30-13 * |
| Tennessee | State Program | 4 | TN02907 | 06-30-14 |
| Texas | NELAP | 6 | T104704286-12-5 | 09-30-14 |
| USDA | Federal | | P330-13-00193 | 07-01-16 |
| Virginia | NELAP | 3 | 460166 | 06-14-14 |
| West Virginia DEP | State Program | 3 | 136 | 06-30-14 |

* Expired certification is currently pending renewal and is considered valid.

**EMSL Analytical, Inc.**
**5125 Adanson Street, Suite 900, Orlando, FL 32804**
Phone/Fax: (407) 599-5887 / (407) 599-9063
http://www.EMSL.com orlandolab@emsl.com

| | |
|---|---|
| EMSL Order: | 341400868 |
| CustomerID: | BARK99 |
| CustomerPO: | |
| ProjectID: | |

Attn: **John Barksdale**
**Barksdale & Associates, Inc.**
**105 South G Street**

**Pensacola, FL 32502**

| | |
|---|---|
| Phone: | (850) 470-0705 |
| Fax: | (850) 429-0277 |
| Received: | 02/03/14 11:25 AM |
| Analysis Date: | 2/7/2014 |
| Collected: | 1/17/2014 |

# Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| | | | Non-Asbestos | | Asbestos | |
|---|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** | |
| CB-AS-01 | Grounds & Landscaping - Pipe | Gray | | 10% Ca Carbonate | **30%** | **Chrysotile** |
| *341400868-0001* | | Fibrous Heterogeneous | | 57% Non-fibrous (other) | **3%** | **Crocidolite** |
| CB-AS-02 | Grounds & Landscaping - Pipe | Gray/Blue | | 10% Ca Carbonate | **25%** | **Chrysotile** |
| *341400868-0002* | | Fibrous Heterogeneous | | 60% Non-fibrous (other) | **5%** | **Crocidolite** |

Analyst(s)

*Katelyn Wright (1)*
*Manolo Hernandez (1)*

Jonathan Teda, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 02/10/2014 08:00:54



**THIS IS THE LAST PAGE OF THE REPORT.**

# Appendix E

# Level II Certification Page

**Level II Certification**

1. Preparer's Certification

I certify that I have made a reasonable effort to perform a technically accurate and comprehensive evaluation during completion of this Level II Survey.

Signed _____ Print Name John D. Barksdale, P.G.

Date 3/4/14 Title B & A Project Manager
Professional Geologist

2. SSO Hazardous Materials Coordinator Review

I certify that I have reviewed this Level II Survey and have determined to the best of my ability that the survey is complete and accurate. I am qualified to perform this review, concur with the recommendation(s), and recommend approval by the Regional Director.

Signed _____ Print Name _____

Date _____ Title _____

3. Regional Director Approval

I hereby approve this Level II Survey and all of the above conclusions and recommendations.

Signed _____ Print Name _____

Date _____ Region _____