

UPDATED LEVEL II CONTAMINATION ASSESSMENT

***State Road 679 (Pinellas Bayway) Over Boca Ciega Bay
from Yacht Club Lane to Bahia Del Mar Boulevard
St. Petersburg, Pinellas County, Florida***

Financial Project Number: 410755-2-C2-01

Shaw Project Number: 150929

July 29, 2014

Submitted to:

Florida Department of Transportation
District 7, ISD
11201 North McKinley Drive
Tampa, Florida 33612-6456

Submitted by:

CB&I Environmental & Infrastructure, Inc. (f/k/a Shaw Environmental, Inc.)
725 U.S. Highway 301 South
Tampa, Florida 33619-4349

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List of Acronyms and Abbreviations

ASTs	aboveground storage tanks
BNAs	base/neutral/acid
CB&I	CB&I Environmental & Infrastructure, Inc. (f/k/a Shaw Environmental, Inc.)
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FID	flame-ionization detector
FID No.	Facility Identification Number
FPN	Financial Project Number
ft bls	feet below land surface
GCTLs	Groundwater Cleanup Target Levels
Lakeland Labs	Lakeland Laboratories
NPDES	National Pollutant Discharge Elimination Systems
OVA	organic vapor analyzer
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
ROW	right-of-way
SCTLs	Soil Cleanup Target Levels
SOP	Standard Operating Procedure
SR	State Road
TOC	Total organic carbon
TRPH	total recoverable petroleum hydrocarbons
UOG	Used Oil Group
UST	underground storage tank
VOCs	volatile organic compounds

1.0 Introduction

CB&I Environmental & Infrastructure, Inc. (CB&I), f/k/a Shaw Environmental, Inc., was retained by the Florida Department of Transportation (FDOT), District 7, to conduct a Level II assessment of potential contamination at five sites along State Road (SR) 679 (Pinellas Bayway) from Yacht Club Lane to Bahia Del Mar Boulevard in Pinellas County, Florida. The Financial Project Number (FPN) for this project corridor is 410755-2-C2-01.

SR 679 is located in the extreme southwestern portion of Pinellas County, and is a north-south two- and four-lane suburban highway. The FDOT is proposing improvements to an approximately 1.093-mile segment of SR 679 between Yacht Club Lane, to the south, and Bahia Del Mar Boulevard, to the north. The project is located in Pinellas County, Florida. As this is a design/build project, specific details regarding the roadway construction were unavailable at the time of this investigation. The SR 679 corridor consists of retail commercial, multi-family residential, and vacation rental properties. These include marine waterways, resorts, condominiums, marinas, dry dock storage, a golf course, boat sales, rental and repair facilities, gasoline stations, dry cleaners, restaurants, a bait shop, a beauty salon, real estate offices, a dentist office, and a hardware store. The FDOT provided Shaw with the December 2006 Draft Contamination Screening Evaluation Report, prepared by Nodarse and Associates, Inc. in association with PBS&J, for CB&I's review. The project corridor is illustrated on a United States Geological Survey (USGS) topographic map (**Figure 1**).

This report documents the investigation, which examined existing or proposed right-of-way (ROW) adjacent to each site to determine if contaminant impacts to soil or groundwater within the proposed construction area exists. Where it exists, contaminant impact to construction is described and recommendations for additional assessment or remedial action are provided.

1.1 Scope of Services

As discussed with the FDOT and provided in the Scope of Services (Letter of Authorization Number 73, Contract BDS99) (**Appendix A**), Shaw conducted a Level II assessment at five sites along the referenced SR 679 corridor in Pinellas County, Florida. The approximate locations of these sites are shown on **Figure 2**. The investigated sites are as follows:

- Site 1: Tierra Verde Resort & Marina, 200 Madonna Boulevard
- Site 2: 7-Eleven Food Store #29301, 150 Pinellas Bayway South
- Site 3: Deltona Corporation, Pinellas Boulevard and Madonna Boulevard
- Site 4: Texaco-Tierra Verde Marina/BP Station, 100 Pinellas Bayway

- Site 5: Tierra Verde Bridge, Structure E at Bridge #150049

To assist the FDOT with planning for the project, Shaw performed a Level II investigation including, but not limited to, the following tasks:

- Prepare a site-specific health and safety plan to ensure a safe working environment.
- Request utility markouts (i.e. setbacks, stations, and vertical and horizontal elevations) from the prime contractor or arrange with a utility locator service to identify and adequately mark all underground utilities in the areas where subsurface investigation will occur, when necessary.
- As required, advance soil borings at the field determined locations at up to five medium and high risk sites as determined in the PD&E Study. These boring locations may be at or adjacent to proposed structure, pipe, or utility locations; along proposed ROW lines; at suspect onsite locations; adjacent to stormwater management facilities; or in other locations as determined by the onsite geologist. Utilizing direct-push technology or hand augers, advance each boring to 1 foot below the water table surface or up to 2 feet below the depth of proposed construction.
- Conduct duplicate soil samples at 12-inch depth intervals to the water table surface and place them into glass sample jars for screening with an organic vapor analyzer (OVA) equipped with a flame-ionization detector (FID) at each boring location, in accordance with Rule 62-770.200(12), Florida Administrative Code (FAC). First, screen one sample without a carbon filter, then screen the other sample with a filter to determine the fraction of methane in each sample. Record the net resultant vapor measurement as the hydrocarbon vapor concentration. Note lithology and depth to groundwater for each boring.
- Collect up to five soil samples, one from each medium and high risk site as determined in the Limited Level I investigation, for laboratory analyses for parameters consistent with known or suspected contaminants of concern. Laboratory soil sample depth and location will be field-determined and representative of soils exhibiting elevated hydrocarbon vapor concentration based on field-screening results, soil staining or odor, contact with buried solid waste, suspect spills, or other surface soil impacts.
- Construct temporary wells in the same borings from which the laboratory soil samples were collected at each medium and high risk site. Collect up to five groundwater samples from the temporary wells for laboratory analyses. Purge the well in accordance with Florida Department of Environmental Protection (FDEP) Standard Operation Procedures (DEP-SOP-01/001), February 1, 2004. The samples will be collected by low flow sampling techniques and submitted for parameters consistent with known or suspected contaminants of concern.
- Properly decontaminate tools and equipment before use and between drilling locations in accordance with the (DEP-SOP-01/001).

- Identify all monitoring wells, recovery wells, and contamination related potential obstructions to construction, etc., within or adjacent to the existing or proposed right of way that the proposed construction project will adversely impact.
- Submit a Level II Report to the department. The Level II report will document data collected and recommendations made as a result of the soil and groundwater assessment. This report will include graphics, tables, and appendices to completely illustrate the assessment effort. The report will also provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary. The consultant will submit one draft report to the department. Upon approval of the draft report by the department, the consultant will submit one hard copy and three electronic media compact disk copies of the report to the department.

1.2 *Previous Investigations*

This Level II investigation is based on findings documented in the following reports for the SR 679 corridor:

- Shaw, “Updated Level I Hazardous Material and Contamination Investigation for State Road 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard, Pinellas County, Florida.” FPN 410755-1-C2-01, August 19, 2009.

The Updated Level I investigation conducted by Shaw in 2009 evaluated potential impacts to construction and contamination sources at six locations along the corridor for SR 679 as described in the information provided by the FDOT. Of the six corridor locations investigated, one received a “**No**” risk rating, and three received a “**Low**” risk rating. Further environmental assessment was not recommended at these locations. Based on observed conditions during the site inspections, and/or information obtained from file searches, two sites received a “**Medium**” risk rating. These sites have possible contamination impacts to construction, or have confirmed contamination and impacts to construction are strongly suspected. No sites received a “**High**” risk rating. Based on the findings documented in the Updated Level I report; soil and groundwater contamination assessments were recommended prior to drainage, signalization, and utility construction at the two “**Medium**” risk rated sites.

- Shaw, “Level II Assessment of Potential Soil and Groundwater Contamination for State Road 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard, Pinellas County, Florida.” FPN 410755-1-C2-01, Shaw Project Number 135581. December 2, 2009.

The Level II investigation conducted by Shaw from July 2009 through September 2009 evaluated potential soil and groundwater impacts to construction and contamination sources at two sites along the SR 679 project corridor. The two sites were believed to present a “**Medium**” risk of potentially impacting construction activities as determined in the 2009 Updated Level I Report. The Level II investigation indicated no analyzed constituent exceeded the Soil Cleanup

Target Levels (SCTLs) at the two sites. In groundwater, no analyzed constituent exceeded the Groundwater Cleanup Target Levels (GCTLs) at Site 2, and in the southern portion of Site 4. In the northern portion of Site 4, arsenic exceeded the GCTL in the area of soil borings SB-4/SB-4R near the northern underground storage tank (UST) area. Based on the findings documented in the Level II report and Shaw's understanding of the proposed road construction project, further soil and groundwater contamination assessments were recommended prior to construction activities.

Site 1, Site 2, and Site 4 are the subjects of this investigation. Site 3 and Site 5 did not warrant any further investigation.

2.0 Investigation Methodology

Based on review of the previous reports and the PD&E Study, three sites were determined to warrant further investigation. Level II soil and groundwater assessment for petroleum and hazardous material contamination was performed at these sites. The following sections describe the assessment methodology.

2.1 Soil Investigation

Soil sample collection tasks were conducted at the three sites using a Geoprobe® direct-push rig and/or a hand auger. Soil borings were placed along proposed drainage alignments, proposed ROW lines, or at locations of suspected contamination at each site. Since proposed construction plans are not known at this time, soil samples were collected in 1-foot depth intervals to at least 2 feet below the water table. Samples were placed into 16-ounce glass jars and allowed to equilibrate for at least 5 minutes. Headspace analysis was then performed with a Photovac OVA equipped with an FID, first without a carbon filter and then with a filter, to measure the concentration of naturally occurring methane present in the sample, in accordance with the procedures of Rule 62-770.200(19), FAC. An onsite geologist logged soil descriptions, organic vapor concentrations, and depths to water.

Soil samples were collected at each of the sites for laboratory analyses consistent with the known or suspected contaminants on site. The laboratory samples were collected from soil borings at each site 1 foot above the water table. Soil samples were submitted to Lakeland Laboratories (Lakeland Labs) in Lakeland, Florida, for laboratory analyses. The samples collected were analyzed for 4 Resource Conservation and Recovery Act (RCRA) Metals by Environmental Protection Agency (EPA) Method 6010C and for Used Oil Group (UOG) parameters, including volatile organic compounds (VOCs) by EPA Method 8260C, base/neutral/acids (BNAs) by EPA Method 8270D, organochlorine pesticides by EPA Method 8081B, polychlorinated biphenyls (PCBs) by EPA Method 8082A, and TRPH by FDEP Method FL-PRO. Soil analytical results for detected constituents are summarized in **Table 1**. Copies of the laboratory analytical reports and chain-of-custody records are in **Appendix B**. Copies of the OVA calibration logs are in **Appendix C**.

2.2 Groundwater Investigation

Groundwater samples were also collected at the investigated sites. The groundwater samples were collected from temporary wells installed by hand or by using Geoprobe® technology to advance a 1-inch-diameter, Schedule 40 polyvinyl chloride (PVC) well screen below the water table surface and purging the well with a pump. The temporary wells were constructed in the same borings from which the soil samples were collected.

The groundwater samples were labeled, manifested, packed on ice, and transported to Lakeland Labs for laboratory analyses consistent with documented or suspected contaminants on site. The samples were analyzed for total and filtered 4 RCRA Metals by EPA Method 6010C and UOG parameters, including VOCs by EPA Method 8260C, BNAs by EPA Method 8270D, organochlorine pesticides by EPA Method 8081B, PCBs by EPA Method 8082A, and TRPH by FDEP Method FL-PRO.

Additionally, a groundwater sample was collected from Site 4 and submitted to Lakeland Labs to be analyzed for constituents as required by the FDEP for a National Pollutant Discharge Elimination System (NPDES) generic permit to discharge to stormwater drainage, if needed, including benzene by EPA Method 624, naphthalene by EPA Method 625, metals by EPA Method 6010C, total organic carbon (TOC) by EPA Method 5310B, hydrogen-ion concentration (pH) by EPA Method 9040B, hexavalent chromium by Standard Method 3500 Cr-D, and mercury by EPA Method 1631. The NPDES groundwater sample was also analyzed for TOC breakdown parameters, including VOHs/VOAs by EPA Method 8260C, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270D, 1,2-dibromoethane (EDB) by EPA Method 8011, and TRPH by FDEP Method FL-PRO. The results of the NPDES analysis are summarized in **Table 2**.

Upon completion of groundwater sampling, the wells were removed and the borings backfilled with native soils. Groundwater analytical results for detected constituents are summarized in **Table 2**. Copies of the laboratory analytical reports and chain-custody records are provided in **Appendix B**. Copies of the FDEP groundwater sampling logs and field instrument calibration records are provided in **Appendix C**.

3.0 Investigation Results

In January and May 2014, Shaw conducted an updated Level II soil and groundwater investigation as required at three sites along the SR 679 project corridor. This section discusses results of that investigation and provides recommendations for additional assessment and/or remedial action, as necessary, based on contaminant impact to construction at each site. The findings, impacts to construction, and recommendations for each site are summarized in **Table 3**.

3.1 Site 1: A and S Tierra Verde Ventures LLC, Tierra Verde Resort & Marina

**200 Madonna Boulevard
Tierra Verde, Florida
Impacts: None**

The Tierra Verde Resort and Marina (Site 1) is located on the west side of SR 679, approximately 275 feet south of the intersection of Madonna Boulevard. The PCPA lists the property as vacant land (Folio No. 173216908280000051) owned by A & S Tierra Verde Ventures LLC. The property is currently a parking lot, with USTs and marine fuel dispensers. The adjoining parcel (Folio No. 173216908280000030), with a street address of 200 Madonna Boulevard, is also owned by A&S Tierra Verde Ventures LLC. This parcel is being used as a resort, water craft rental, and marina. There is one Facility Identification Number (FID No.) (528945262) and two Emergency Response Notification System (ERNS) (Site ID Nos. 98434242 and 2007831911) numbers associated with the site. The approximate site location is shown on **Figure 2**.

3.1.1 Soil Investigation

To delineate possible impacts in the anticipated area of work, Shaw installed three soil borings (SB-13 to SB-15) in the FDOT ROW. Soil borings SB-13 and SB-14 were advanced to approximately 7 feet below land surface (ft bls) and SB-15 was advanced to approximately 6 ft bls, approximately 2 feet below the observed water table. Soil samples were collected at 1-foot depth intervals to the bottom of the borings and field-screened as previously described. Groundwater was encountered at approximately 5 ft bls in SB-13 and SB-14 and at approximately 4 ft bls in SB-15. The soil borings and sample locations are shown on **Figure 3**.

OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 59.9 parts per million (ppm). The highest net OVA reading was detected at 5 ft bls in SB-15. No net OVA readings above 0 ppm were detected above the water table. Slight organic odors were detected from 6 to 7 ft bls and 5 to 6 ft bls in SB-14 and SB-15, respectively. Soil descriptions and OVA-FID data are provided in **Table 4**.

One grab soil sample was collected from SB-15 at 3 ft bls. The sample was submitted to Lakeland Labs and analyzed for UOG parameters and 4 RCRA Metals. The analytical results for

SB-15@3' indicated that no constituent exceeded the Chapter 62-777, FAC, SCTLs. Acetone and carbon disulfide were detected at concentrations below the regulatory limits. Results for detected constituents in soil are summarized in **Table 1**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. A copy of the OVA calibration log is in **Appendix C**.

3.1.2 Groundwater Investigation

Temporary well TW-1 was installed at the location of SB-15, the same boring from which the soil sample was collected. The sample was submitted to Lakeland Labs and analyzed for UOG parameters and total and filtered 4 RCRA Metals. The sample location is shown on **Figure 3**.

Analytical results indicated that no constituent exceeded the GCTLs or NPDES permit limits. TRPH was detected at a concentration below the regulatory limit. Results for detected constituents in groundwater are summarized in **Table 2**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. Copies of the FDEP groundwater sampling log and field instrument calibration record are in **Appendix C**.

3.1.3 Impacts to Construction

This updated Level II investigation found no soil or groundwater contamination in the samples collected at this site. No further assessment or remedial action is recommended. If changes to proposed drainage alignments and/or additional utility adjustments occur in subsequent construction plans, additional assessment and/or remedial action may be required. All findings and impacts to construction are summarized in **Table 3**.

3.2 Site 2: 7-Eleven Food Store #29301

**150 Pinellas Bayway
Tierra Verde, Florida
Impacts: None**

The 7-Eleven Food Store # 29301 (Site 2) is located on the southwest corner of Madonna Boulevard and SR 679. The site operates as an active retail gasoline station and convenience store. Currently, two 10,000-gallon capacity USTs containing unleaded gasoline are in use on the property. There is one FID No. (528736151) and two releases associated with the site. The FDEP records indicate discharges were reported for the facility on November 29, 1988, and on February 22, 1993. Both discharges remain open with the work status listed as inactive. No data was available on OCULUS to determine the current quantity and distribution of hydrocarbon impacts. The approximate site location is shown on **Figure 2**.

3.2.1 Soil Investigation

To delineate possible impacts in the anticipated area of work, Shaw installed two soil borings (SB-11 and SB-12) in the FDOT ROW. The soil borings were advanced to approximately 6 ft

bls, approximately 2 feet below the observed water table. Soil samples were collected at 1-foot depth intervals to the bottoms of the borings and field-screened as previously described. Groundwater was encountered at approximately 4 ft bls in both soil borings. The soil borings and sample locations are shown on **Figure 4**.

OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 0.3 ppm. The highest net OVA reading was detected at 5 ft bls in SB-12. No net OVA readings above 0 ppm were detected above the water table. No petroleum or organic odors were apparent in any borings. Soil descriptions and OVA-FID data are provided in **Table 5**.

One grab soil sample was collected from SB-12 at 3 ft bls. The sample was submitted to Lakeland Labs and analyzed for UOG parameters and 4 RCRA Metals. The analytical results for **SB-12@3'** indicated that no constituent exceeded the SCTLs. No constituents were detected above the regulatory limits. Results for detected constituents in soil are summarized in **Table 1**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. A copy of the OVA calibration log is in **Appendix C**.

3.2.2 Groundwater Investigation

Temporary well TW-1 was installed at the location of SB-12, the same boring from which the soil sample was collected. The sample was submitted to Lakeland Labs and analyzed for UOG parameters and total and filtered 4 RCRA Metals. The sample location is shown on **Figure 4**.

Analytical results indicated that no constituent exceeded the GCTLs or NPDES permit limits. None of the constituents analyzed for in the groundwater were detected. Results for detected constituents in groundwater are summarized in **Table 2**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. Copies of the FDEP groundwater sampling log and field instrument calibration records are in **Appendix C**.

3.2.3 Impacts to Construction

This updated Level II investigation found no soil or groundwater contamination in the samples collected at this site. No further assessment or remedial action is recommended. If changes to proposed drainage alignments and/or additional utility adjustments occur in subsequent construction plans, additional assessment and/or remedial action may be required. All findings and impacts to construction are summarized in **Table 3**.

3.3 Site 4: Tierra Verde-BP Station

**128 Pinellas Bayway
Tierra Verde, Florida
Impacts: None**

The Tierra Verde-BP (Site 4) is located on the northwestern corner of the intersection of SR 679 and Madonna Boulevard. The Pinellas County Property Appraiser lists the street address as 128 Pinellas Bayway, while the FDEP references the site as BP-Tierra Verde Marina at 100 Pinellas Bayway South. The site operates as a retail commercial strip center, dry storage marina, and gas station. Current tenants include the BP gas and convenience store with Subway sandwich shop, a drop-off dry cleaner, a boat sales and storage facility, a hardware store, a dentist office, a real estate office, a post office, a bait shop, a jet ski rental, a salon, and a sandwich shop. Currently the site has two storage tank fields. The northern storage field, associated with marine fueling operations, consists of two, out of service, 6,000-gallon capacity USTs that reportedly contained unleaded gasoline and vehicular diesel. The southern storage tank field, associated with vehicle fueling, consists of the one, 16,000-gallon UST containing unleaded gasoline. Three additional 500-gallon capacity unregistered aboveground storage tanks (ASTs) were also noted in the northern portion of the site during the Level I investigation. The tanks are believed to be used to maintain marina operations and fuel the on-site construction equipment. The AST contained off-road diesel and premium unleaded gasoline. There is one FID No. (528630856) and two petroleum discharges associated with the northern (marine) storage tank area. A July 13, 1990, release was associated with a delivery overfill and a July 21, 1993, release was associated with impacted soil discovered during a fill port upgrade. Both releases were awarded No Further Action on November 19, 1993. The approximate site location is shown on **Figure 2**.

3.3.1 Soil Investigation

To delineate possible impacts in the anticipated area of work, Shaw installed nine soil boring (SB-1 to SB-9) in the FDOT ROW. Soil boring SB-7 was advanced to approximately 6 ft bls; SB-1, SB-8, and SB-9 were advanced to approximately 7 ft bls; SB-2 was advanced to approximately 9 ft bls; and SB-3 to SB-6 were advanced to approximately 12 ft bls. All soil borings were advanced to approximately 2 feet below the observed water table. Soil samples were collected at 1-foot depth intervals to the bottom of the borings and field-screened as previously described. Groundwater was encountered between approximately 4 and 10 ft bls. The soil borings and sample locations are shown on **Figure 5**.

OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 814 ppm. The highest net OVA reading was detected at 7 ft bls in SB-8. No net OVA readings above 0 ppm were detected above the water table. Slight to strong organic odors were detected at 9 ft bls in SB-2; at 10, 11, and 12 ft bls in SB-3; at 12 ft bls in SB-4; at 11 and 12 ft bls in

SB-5; at 6 ft bls in SB-7; at 5, 6, and 7 ft bls in SB-8; and at 6 and 7 ft bls in SB-9. Soil descriptions and OVA-FID data are provided in **Table 6**.

Two grab soil samples were collected from SB-4 at 9 ft bls and from SB-8 at 4 ft bls. The samples were submitted to Lakeland Labs and analyzed for UOG parameters and 4 RCRA Metals. The analytical results for **SB-4@9'** indicated no constituents exceeded the SCTLs. TRPH and chromium were detected at concentrations below the regulatory limits. The analytical results for **SB-8@4'** indicated no constituents exceeded the SCTLs. TRPH was detected at a concentration below the regulatory limit. Results for detected constituents in soil are summarized in **Table 1**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. A copy of the OVA calibration log is in **Appendix C**.

3.3.2 Groundwater Investigation

In January 2014, temporary wells TW-1 and TW-2 were installed near the location of SB-4 and SB-8, respectively, the same borings from which the soil samples were collected. The groundwater samples collected from temporary wells TW-1 and TW-2 were submitted to Lakeland Labs and analyzed for UOG parameters and total and filtered 4 RCRA Metals. In addition, TW-1 was also analyzed for NPDES parameters and High TOC Breakdown parameters, as previously discussed. In May 2014, temporary well TW-3 was installed at the 2009 location of SB-4/SB-4R and sampled for total and filtered 4 RCRA Metal. The sample locations are shown on **Figure 5**.

The analytical results for **TW-1** indicated that no constituents exceeded the GCTLs or NPDES permit limits. TRPH, mercury, and TOC were detected at concentrations below the regulatory limits. Analytical results for **TW-2** indicated that no constituents exceeded the GCTLs or NPDES permit limits. Carbon disulfide and TRPH were detected at concentrations below the regulatory limits. Analytical results for **TW-3** indicated that no constituents exceeded the GCTLs or NPDES permit limits. Analytical results from this current assessment indicated no exceedances of the GCTLs or NPDES permit limits for any of the samples, including TW-3 located in the approximate location of SB-4/SB-4R from 2009. Results for detected constituents in groundwater are summarized in **Table 2**. Copies of the laboratory analytical report and chain-of-custody record are in **Appendix B**. Copies of the FDEP groundwater sampling log and field instrument calibration records are in **Appendix C**.

3.3.3 Impacts to Construction

This updated Level II investigation found no soil or groundwater contamination in the samples collected at this site. No further assessment or remedial action is recommended. If changes to proposed drainage alignments and/or additional utility adjustments occur in subsequent construction plans, additional assessment and/or remedial action may be required. All findings and impacts to construction are summarized in **Table 3**.

4.0 *Summary of Findings*

An updated Level II investigation was performed in January and May 2014 at three sites believed to present a “Medium” risk of impacting construction activities as identified in the 2009 Level II Assessment and the 2009 Updated Level I Report.

This updated Level II investigation indicated no soil samples exceeded SCTLs for any analyzed constituents at any of the three sites. In the groundwater samples, no analyzed constituent exceeded the GCTLs or NPDES permit limits at any of the sites. In the northern portion of Site 4, near the northern UST area, a confirmatory groundwater sample collected from a temporary well installed in the approximate location of previous arsenic exceedances indicated no contamination. All findings and impacts to construction are summarized by site in **Table 3**.

Shaw recommends reviewing the construction plans, once completed, for proposed drainage alignments and/or utility adjustments as additional assessment and/or remedial action may be required.

5.0 Disclaimer

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client, unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, timeframes, and project parameters indicated. CB&I is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. CB&I does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Tables

TABLE 1: SOIL ANALYTICAL SUMMARY (DETECTED CONSTITUENTS)

**Updated Level II Assessment of Potential Soil and Groundwater Contamination
SR 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard,
St. Petersburg, Pinellas County, Florida
FPN 410755-2-C2-01 Shaw Project No. 150929**

Sample					VOCs by EPA 8260C (mg/kg)		FL-PRO (mg/kg)	Metals by EPA 6010C (mg/kg)
Site Location	Laboratory Sample ID	Date	Depth (ft bls)	Analysis	Acetone	Carbon Disulfide	TRPH	Chromium
Toxic Equivalency Factor					NA	NA	NA	NA
SCTLs - Direct Exposure Residential					11,000	270	460	210
SCTLs - Direct Exposure Commercial/Industrial					68,000	1,500	2,700	470
SCTLs - Leachability Based on Groundwater Criteria					25	5.6	340	38
Site 1: A and S Tierra Verde Ventures LLC, Tierra Verde Resort & Marina	SB15@3'	01/15/14	3	UOG and 4 RCRA Metals	0.0132	0.000903	U	U
Site 2: 7-Eleven Food Store # 29301	SB12@3'	01/15/14	3	UOG and 4 RCRA Metals	U	U	U	U
Site 4: Tierra Verde-BP	SB#8@4' bls	01/14/14	4	UOG and 4 RCRA Metals	U	U	13.2	U
	SB#4@9' bls	01/14/14	9	UOG and 4 RCRA Metals	U	U	15.8	1.07

Notes:

SCTLs = Soil Cleanup Target Levels per Chapter 62-777, Table II, Florida Administrative Code

BNAs = base/neutral acids

EPA = Environmental Protection Agency

ft bls = feet below land surface

mg/kg = milligrams per kilogram

NA = not applicable

PCBs= polychlorinated biphenyls

RCRA = Resource Conservation and Recovery Act

TRPH = total recoverable petroleum hydrocarbons

U = Undetected

UOG = Used Oil Group (VOCs by EPA Method 8260C, BNAs by EPA Method 8270D, organochlorine pesticides by EPA Method 8081B, PCBs by EPA 8082A, TRPH by FDEP Method FL-PRO, 4 RCRA Metals by EPA Method 6010C)

VOCs = volatile organic compounds

* = denotes SCTL obtained using Benzo(a)pyrene Conversion Table

★ = May be derived using SPLP to calculate site-specific SCTLs or determined by Toxicity Characteristic Leaching Procedure in event of oily wastes

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY (DETECTED CONSTITUENTS)

**Updated Level II Assessment of Potential Soil and Groundwater Contamination
SR 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard,
St. Petersburg, Pinellas County, Florida
FPN 410755-2-C2-01 Shaw Project No. 150929**

Sample				VOCs/VOHs by EPA 8260C (ug/L)	FL-PRO (mg/kg)	pH by EPA Method 9040B (su)	Low-Level Mercury by EPA 1631 (µg/L)	Total Organic Carbon by EPA Method 5310B (mg/L)
Site Location	Sample ID	Date	Analysis	Carbon Disulfide	TRPH			
GCTLs				700	5,000	NS	2.0	NS
NPDES				NS	NS	6-8.5	0.012	10
Site 1: A and S Tierra Verde Ventures LLC, Tierra Verde Resort & Marina	TW-1	01/16/14	UOG, Total and Filtered 4 RCRA Metals	U	184	NR	NR	NR
Site 2: 7-Eleven Food Store #29301	TW-1	01/16/14	UOG, Total and Filtered 4 RCRA Metals	U	U	NR	NR	NR
Site 4: Tierra Verde-BP	TW-1	01/16/14	UOG, Total and Filtered 4 RCRA Metals	U	286	NR	NR	NR
	TW-2	01/16/14	UOG, Total and Filtered 4 RCRA Metals	1.10	280	NR	NR	NR
	TW-1	01/21/14	NPDES and High TOC parameters and Total and Filtered RCRA Metals	NR	U	7.23	0.00168	5.1
	TW-3	05/19/14	Total and Filtered 4 RCRA Metals	NR	NR	NR	NR	NR

Notes:

GCTLs = Groundwater Cleanup Target Levels per Chapter 62-777, Table I, Florida Administrative Code (FAC)

NPDES = National Pollutant Discharge Elimination System, Generic Permit, Table 4 Screening Values

BNAs = base/neutral acids

EPA = Environmental Protection Agency

mg/L = milligrams per liter

NS = No Standard

NR = not requested

PAHs = polynuclear aromatic hydrocarbons

PCBs= polychlorinated biphenyls

pH = hydrogen-ion concentration

RCRA = Resource Conservation and Recovery Act

su = standard units

TOC = total organic carbon

TRPH = total recoverable petroleum hydrocarbons

µg/L = micrograms per liter

U = undetected

VOCs = volatile organic compounds

VOHs = volatile organic hydrocarbons

UOG = Used Oil Group (VOCs by EPA Method 8260C, BNAs by EPA Method 8270D, organochlorine pesticides by EPA Method 8081B, PCBs by EPA 8082A, TRPH by FDEP Method FL-PRO, Total and Filtered 4 RCRA Metals by EPA Method 6010C)

NPDES Parameters include TOC by EPA Method 5310B, pH by EPA Method 9040B, mercury by EPA Method 1631, Metals by EPA Method 6010C, hexavalent chromium by SM 3500 Cr-D, benzene by EPA Method 624, and naphthalene by EPA Method 625

High TOC parameters include VOHs/VOAs by EPA Method 8260C, PAHs by EPA Method 8270D, 1,2-dibromoethane (EDB) by EPA Method 8011, and TRPH by FDEP Method FL-PRO

TABLE 3: ESSENTIAL FINDINGS SUMMARY FOR SOIL AND GROUNDWATER CONTAMINATION

Updated Level II Assessment of Potential Soil and Groundwater Contamination
SR 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard,
St. Petersburg, Pinellas County, Florida
FPN 410755-2-C2-01 Shaw Project No. 150929

Site Identification	Field and Laboratory Results		Construction		Recommended Corrective Action
	Soil	Groundwater	Proposed	Anticipated Impacts	
Site 1: A and S Tierra Verde Ventures LLC, Tierra Verde Resort & Marina 200 Madonna Boulevard Tierra Verde, Florida Impacts: None	Three soil borings (SB-13 through SB-15) were advanced to approximatley 6 to 7 ft bls. Soil borings SB-13 and SB-14 were advanced to approximatley 7 ft bls and SB-15 was advanced to 6 ft bls. OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 59.9 ppm. The highest net OVA reading was detected at 5 ft bls in SB-15. No net OVA readings above 0 ppm were detected above the water table. Slight organic odors were detected from 6 to 7 ft bls and 5 to 6 ft bls in SB-14 and SB-15, respectively. One soil sample was collected from SB-15 at 3 ft bls and analyzed for UOG parameters and 4 RCRA Metals. <u>SB-15@3'</u> compounds EXCEEDING limits: None Detected: Acetone and carbon disulfide	Groundwater was encountered from approximately 4 to 5 ft bls. One groundwater sample was collected from TW-1 (installed in SB-15) and analyzed for UOG parameters and total and filtered 4 RCRA Metals. <u>TW-1</u> Compounds EXCEEDING limits: None Detected: TRPH	Proposed construction activities were unknown at the time of this investigation.	No soil or groundwater impacts are expected in the construction area.	No further assessment or remedial action is recommended.
Site 2: 7-Eleven Food Store No. 29301 150 Pinellas Bayway Tierra Verde, Florida Impacts: None	Two soil borings were advanced to approximately 6 ft bls. OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 0.3 ppm. The highest net OVA reading was detected at 5 ft bls in SB-12. No net OVA readings above 0 ppm were detected above the water table. No petroleum or organic odors were apparent in any borings. One soil sample was collected from SB-12 at 3 ft bls and analyzed for UOG parameters and 4 RCRA Metals. <u>SB-12@3'</u> compounds EXCEEDING limits: None Detected: None	Groundwater was encountered at approximately 4 ft bls. One groundwater sample was collected from TW-1 (installed in SB-12) and analyzed for UOG parameters and total and filtered 4 RCRA Metals. <u>TW-1</u> Compounds EXCEEDING limits: None Dected: None	Proposed construction activities were unknown at the time of this investigation.	No soil or groundwater impacts are expected in the construction area.	No further assessment or remedial action is recommended.

TABLE 3: ESSENTIAL FINDINGS SUMMARY FOR SOIL AND GROUNDWATER CONTAMINATION

Updated Level II Assessment of Potential Soil and Groundwater Contamination
SR 679 (Pinellas Bayway) Over Boca Ciega Bay, from Yacht Club Lane to Bahia Del Mar Boulevard,
St. Petersburg, Pinellas County, Florida
FPN 410755-2-C2-01 Shaw Project No. 150929

Site Identification	Field and Laboratory Results		Construction		Recommended Corrective Action
	Soil	Groundwater	Proposed	Anticipated Impacts	
Site 4: Tierra Verde-BP 128 Pinellas Bayway Tierra Verde, Florida Impacts: None	Nine soil borings were advanced to approximately 6 and 12 ft bls. Soil boring SB-7 was advanced to approximately 6 ft bls; SB-1, SB-8, and SB-9 were advanced to approximately 7 ft bls; SB-2 was advanced to approximately 9 ft bls; and SB-3 to SB-6 were advanced to approximately 12 ft bls. OVA-FID screening detected net hydrocarbon vapor concentrations ranging between 0 and 814 ppm. The highest net OVA reading was detected at 7 ft bls in SB-8. No net OVA readings above 0 ppm were detected above the water table. Slight to strong organic odors were detected at 9 ft bls in SB-2; at 10, 11, and 12 ft bls in SB-3; at 12 ft bls in SB-4; at 11 and 12 ft bls in SB-5; at 6 ft bls in SB-7; at 5, 6, and 7 ft bls in SB-8; and at 6 and 7 ft bls in SB-9. Soil samples were collected from SB-4 at 9 ft bls and SB-8 at 4 ft bls and analyzed for UOG parameters and 4 RCRA Metals. <u>SB-4@9'</u> compounds EXCEEDING limits: None Detected: TRPH and chromium <u>SB-8@4'</u> Compounds EXCEEDING limits: None Detected: TRPH	Groundwater was encountered between approximately 4 and 10 ft bls. In January 2014, groundwater samples were collected from TW-1 (installed in SB-4, northern portion of the site) and from TW-2 (installed in SB-8, southern portion of the site). Temporary wells TW-1 and TW-2 were analyzed for the UOG and total and filtered 4 RCRA Metals. The sampled collected from TW-1 was also analyzed for NPDES parameters and High TOC Breakdown parameters. In May 2014, an additional temporary well (TW-3) was installed atthe approximate location of SB-4/SB-4R (2009 assessment) and sampled for total and filtered 4 RCRA Metals. <u>TW-1</u> Compounds EXCEEDING limits: None Detected: TRPH, mercury, and TOC <u>TW-2</u> Compounds EXCEEDING limits: None Detected: Carbon disulfide and TRPH <u>TW-3</u> Compounds EXCEEDING limits: None Detected: None	Proposed construction activities were unknown at the time of this investigation.	No soil or groundwater impacts are expected in the construction area.	No further assessment or remedial action is recommended.

Notes: NPDES = National Pollutant Discharge Elimination System
FID = flame-ionization detector
ft bls = feet below land surface
OVA = organic vapor analyzer
ppm = parts per million
RCRA = Resource Conservation and Recovery Act
TOC = total organic carbon
TRPH = total recoverable petroleum hydrocarbons
UOG = Used Oil Group

TABLE 4: SOIL BORING AND OVA/FID LOG

Site 1: A and S Tierra Verde Ventures LLC, Tierra Verde Resort & Marina
200 Madonna Boulevard
Tierra Verde, Florida
FPN: 410755-2-C2-01 Shaw Project No. 150929

Soil Boring No.	Date	Depth (ft bls)	Lithologic Description	OVA Results (ppm)		
				OVA Unfiltered	OVA Filtered	Corrected
SB-13	01/15/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	1.7	1.2	0.5
		6	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	20.3	18.4	1.9
		7	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	39.6	33.0	6.6
SB-14	01/15/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, slight odor	8.2	6.0	2.2
		7	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, slight odor	6.3	5.1	1.2
SB-15	01/15/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3★	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, slight odor	216.7	156.8	59.9
		6	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, slight odor	13.1	12.9	0.2

Notes: ◆ = groundwater encountered at this depth
★ = confirmatory laboratory soil sample collected
ft bls= feet below land surface
OVA = organic vapor analyzer
ppm = parts per million

Shaded and **bold** indicate values 50 ppm and above

TABLE 5: SOIL BORING AND OVA/FID LOG

Site 2: 7-Eleven Food Store No. 29301
150 Pinellas Bayway, Tierra Verde, Florida
FPN: 410755-2-C2-01 Shaw Project No. 150929

Soil Boring No.	Date	Depth (ft bls)	Lithologic Description	OVA Results (ppm)		
				OVA Unfiltered	OVA Filtered	Corrected
SB-11	01/15/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4◆	Moist, light gray, fine sand, low cohesiveness, no odor	0	-	0
		5	Wet, light gray, clayey sand, med cohesiveness, no odor	0	-	0
		6	Wet, light gray, fine sand, low cohesiveness, no odor	0	-	0
SB-12	01/15/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3★	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4◆	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Wet, gray, fine sand, low cohesiveness, no odor	1.9	1.6	0.3
		6	Wet, gray, fine sand, low cohesiveness, no odor	0	-	0

Notes: ◆ = groundwater encountered at this depth
★ = confirmatory laboratory soil sample collected
ft bls= feet below land surface
OVA = organic vapor analyzer
ppm = parts per million
** = denotes sample in which methane corrected reading exceeded uncorrected reading

TABLE 6: SOIL BORING AND OVA/FID LOG

Site 4: Tierra Verde-BP
128 Pinellas Bayway
Tierra Verde, Florida

FPN: 410755-2-C2-01 Shaw Project No. 150929

Soil Boring	Date	Depth (ft bls)	Lithologic Description	OVA Results (ppm)		
				OVA Unfiltered	OVA Filtered	Corrected
SB-1	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5◆	Wet, light gray, fine sand, 25% shell hash, low cohesiveness, no odor	0	-	0
		6	Wet, light gray, fine sand, 25% shell hash, low cohesiveness, no odor	6.5	3.6	2.9
		7	Wet, light gray, fine sand, 50% shell hash, low cohesiveness, no odor	140.6	95.6	45.0
SB-2	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		7◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		8	Wet, light brown, fine sand, 25% shell hash, low cohesiveness, no odor	13.3	9.9	3.4
		9	Wet, brown, coarse sand, 50% shell hash, low cohesiveness, organic odor	403.2	309.2	98.5
SB-3	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		7	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		8	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		9◆	Wet, gray, fine sand, 10% shell hash, medium cohesiveness, no odor	0	-	0
		10	Wet, gray, coarse sand, 50% shell hash, low cohesiveness, slight organic odor	39.4	29.9	9.5
		11	Wet, gray, coarse sand, 50% shell hash, low cohesiveness, slight organic odor	249.9	177.7	72.2
		12	Wet, gray, coarse sand, 50% shell hash, low cohesiveness, slight organic odor	5.6	3.3	2.3
SB-4	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		7	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		8	Moist, light gray, medium sand, low cohesiveness, no odor	0	-	0
		9★	Moist, light gray, medium sand, low cohesiveness, no odor	0	-	0
		10◆	Wet, light gray, medium sand, low cohesiveness, no odor	0	-	0
		11	Wet, gray, fine sand, medium cohesiveness, no odor	0	-	0
		12	Wet, gray, fine sand, medium cohesiveness, slight organic odor	32.6	25.1	7.5

TABLE 6: SOIL BORING AND OVA/FID LOG

Site 4: Tierra Verde-BP
128 Pinellas Bayway
Tierra Verde, Florida

FPN: 410755-2-C2-01 Shaw Project No. 150929

Soil Boring	Date	Depth (ft bls)	Lithologic Description	OVA Results (ppm)		
				OVA Unfiltered	OVA Filtered	Corrected
SB-5	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		7	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		8	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		9	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		10◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		11	Wet, gray, fine sand, medium cohesiveness, slight organic odor	5.4	3.6	1.8
		12	Wet, gray, fine sand, medium cohesiveness, strong organic odor	15.5	12.9	2.6
SB-6	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		6	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		7	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		8	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		9	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		10◆	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		11	Wet, gray, fine sand, medium cohesiveness, no odor	0	-	0
		12	Wet, gray, fine sand, medium cohesiveness, no odor	40.6	30.9	9.7
SB-7	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4◆	Wet, light gray, fine sand, low cohesiveness, no odor	7.9	5.3	2.6
		5	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	8.6	3.6	3.0
		6	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, strong organic odor	84.7	66.8	17.9
SB-8	01/14/14	1	Dry, light gray, coarse sand, 25% shell hash, low cohesiveness, no odor	0	-	0
		2	Dry, light gray, coarse sand, 25% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4★	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5◆	Wet, light gray, fine sand, low cohesiveness, slight organic odor	7.7	5.1	2.6
		6	Wet, light gray, fine sand, 10% shell hash, low cohesiveness, slight organic odor	42.9	31.2	11.7
		7	Wet, brown, clayey fine sand, organic debris, medium cohesiveness, strong organic odor	3,089	2,275	814
SB-9	01/14/14	1	Dry, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		2	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		3	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		4	Moist, light gray, fine sand, 10% shell hash, low cohesiveness, no odor	0	-	0
		5◆	Wet, light gray, fine sand, 25% shell hash, low cohesiveness, no odor	0	-	0
		6	Wet, light gray, fine sand, low cohesiveness, slight organic odor	5.3	3.2	2.1
		7	Wet, light gray, fine sand, low cohesiveness, slight organic odor	174.0	119.9	54.1

TABLE 6: SOIL BORING AND OVA/FID LOG

Site 4: Tierra Verde-BP
128 Pinellas Bayway
Tierra Verde, Florida

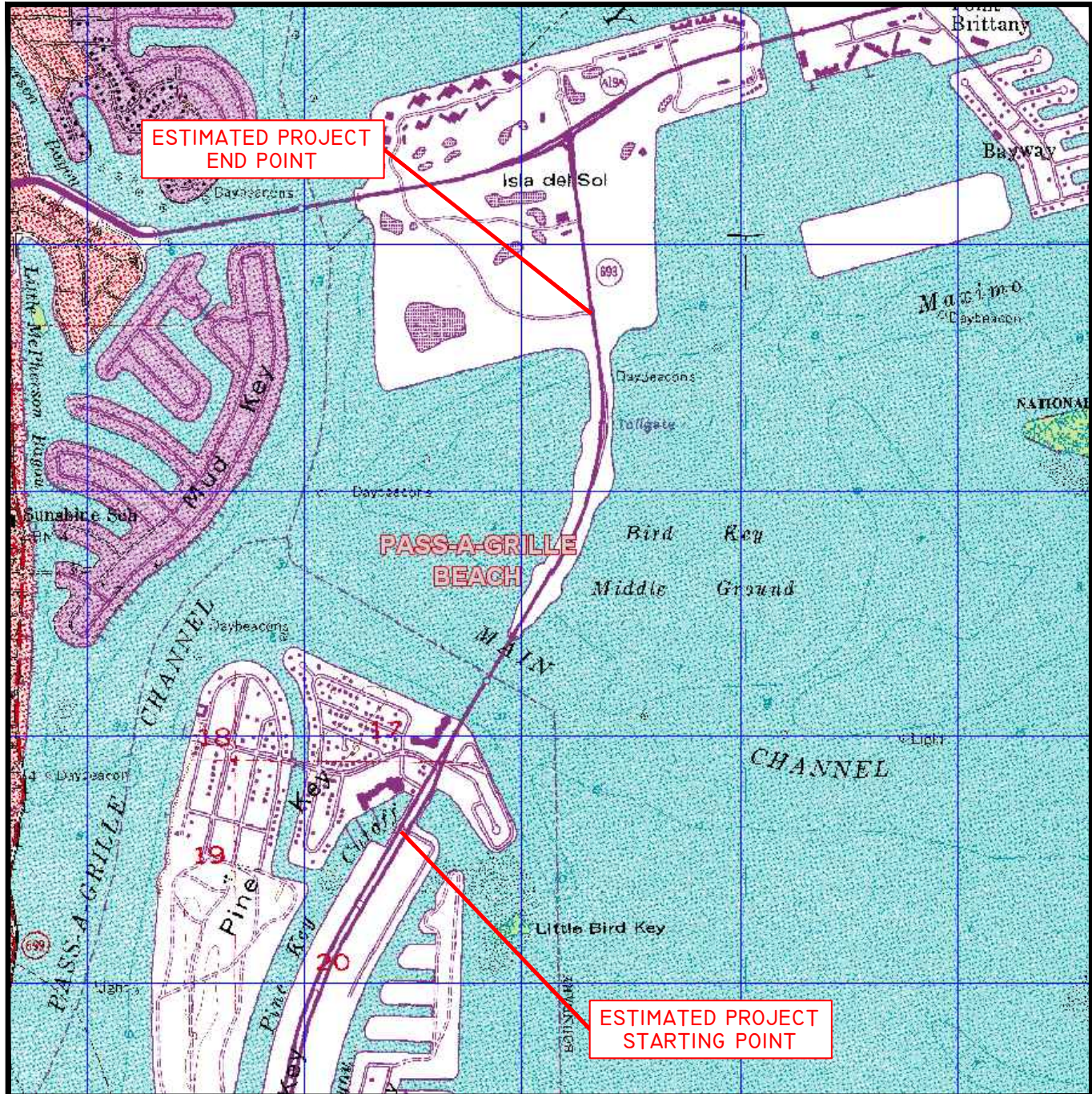
FPN: 410755-2-C2-01 Shaw Project No. 150929

Soil Boring	Date	Depth (ft bls)	Lithologic Description	OVA Results (ppm)		
				OVA Unfiltered	OVA Filtered	Corrected
TW-3	05/14/14	1	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		2	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		3	Shell/sand mix, light gray, no odor, low cohesiveness	0	0	0
		4	Shell/sand mix, light gray, no odor, low cohesiveness	0	0	0
		5	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		6	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		7	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		8	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		9	Shell/sand mix, light tan, no odor, low cohesiveness	0	0	0
		10 ♦	Wet, shell/sand mix, light tan, no odor, medium cohesiveness	0	0	0

Notes: ♦ = groundwater encountered at this depth
★ = confirmatory laboratory soil sample collected
ft bls= feet below land surface
OVA = organic vapor analyzer
ppm = parts per million
** = denotes sample in which methane corrected reading exceeded uncorrected reading

Shaded and **bold** indicate values 50 ppm and above

Figures



REFERENCE:

7.5 MINUTE U.S.G.S. TOPOGRAPHIC
QUADRANGLE MAP, PASS-A-GRIFFE
BEACH, FLORIDA, DATED 1999.

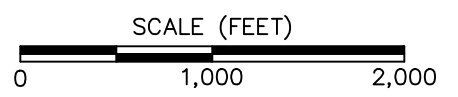
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OFFICE: TAMPA	DATE: 7-29-14	ACAD FILE: 0929A1
PROJECT LOCATION MAP		
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT VII		PM: KD
LOCATION: STATE ROAD 679 (PINELLAS BAYWAY) over BOCA CIEGA BAY from YACHT CLUB LANE to BAHIA DEL MAR BOULEVARD ST. PETERSBURG, PINELLAS COUNTY, FLORIDA FPN 410755-2-C2-01		
DESIGNED: NM	DRAWN: SDJF	PROJECT NO.: 150929
		FIGURE: 1



LEGEND:

-  ESTIMATED PROJECT CORRIDOR
-  **SITE 4** APPROXIMATE LOCATION and ID NUMBER



CB&I ENVIRONMENTAL &
INFRASTRUCTURE, INC.
725 U.S. HIGHWAY 301 SOUTH
TAMPA, FLORIDA 33619
(813) 612-3600 OFFICE
(813) 626-1663 FAX

OFFICE: TAMPA	DATE: 7-29-14	ACAD FILE: 0929B4
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SITE LOCATION MAP

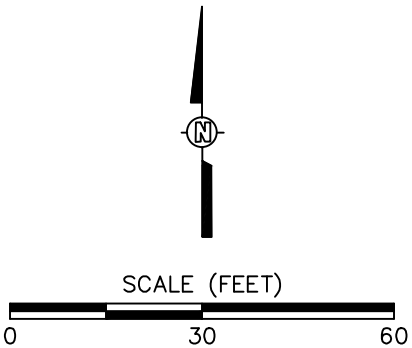
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT VII	PM: KD
---	-----------

LOCATION:
STATE ROAD 679 (PINELLAS BAYWAY) over
BOCA CIEGA BAY from YACHT CLUB LANE
to BAHIA DEL MAR BOULEVARD
ST. PETERSBURG, PINELLAS COUNTY, FLORIDA
FPN 410755-2-C2-01

DESIGNED: NM	DRAWN: SDJF	PROJECT NO.: 150929	FIGURE: 2
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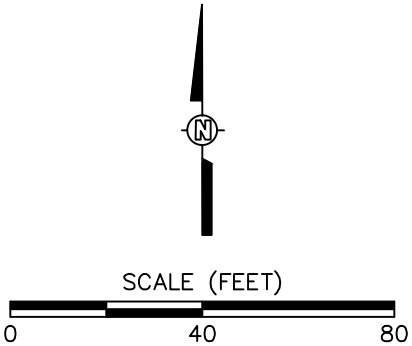
- LEGEND:
- SOIL BORING/TEMPORARY MONITORING WELL LOCATION
 - SOIL BORING LOCATION



CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC. 725 U.S. HIGHWAY 301 SOUTH TAMPA, FLORIDA 33619 (813) 612-3600 OFFICE (813) 626-1663 FAX			
OFFICE: TAMPA	DATE: 7-29-14	ACAD FILE: 0929B1	
SOIL BORING AND TEMPORARY MONITORING WELL LOCATION MAP			
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT VII			PM: KD
LOCATION: SITE 1: TIERRA VERDE RESORT and MARINA STATE ROAD 679 (PINELLAS BAYWAY) over BOCA CIEGA BAY from YACHT CLUB LANE to BAHIA DEL MAR BOULEVARD ST. PETERSBURG, PINELLAS COUNTY, FLORIDA FPN 410755-2-C2-01			
DESIGNED: NM	DRAWN: SDJF	PROJECT NO.: 150929	FIGURE: 3



- LEGEND:
- SOIL BORING/TEMPORARY MONITORING WELL LOCATION
 - SOIL BORING LOCATION



CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC. 725 U.S. HIGHWAY 301 SOUTH TAMPA, FLORIDA 33619 (813) 612-3600 OFFICE (813) 626-1663 FAX			
OFFICE: TAMPA	DATE: 7-29-14	ACAD FILE:	0929B2
SOIL BORING AND TEMPORARY MONITORING WELL LOCATION MAP			
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT VII			PM: KD
LOCATION: SITE 2: 7-ELEVEN FOOD STORE No. 29301 STATE ROAD 679 (PINELLAS BAYWAY) over BOCA CIEGA BAY from YACHT CLUB LANE to BAHIA DEL MAR BOULEVARD ST. PETERSBURG, PINELLAS COUNTY, FLORIDA FPN 410755-2-C2-01			
DESIGNED: NM	DRAWN: SDJF	PROJECT NO.: 150929	FIGURE: 4



LEGEND:

- SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SOIL BORING LOCATION
- TEMPORARY MONITORING WELL LOCATION



SCALE (FEET)

0 60 120

CB&I ENVIRONMENTAL &
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TAMPA, FLORIDA 33619
(813) 612-3600 OFFICE
(813) 626-1663 FAX

OFFICE: TAMPA	DATE: 7-29-14	ACAD FILE: 0929B3
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**SOIL BORING AND TEMPORARY
MONITORING WELL LOCATION MAP**

CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT VII	PM: KD
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LOCATION:
SITE 4: TEXACO-TIERRA VERDE
MARINA/BP STATION
STATE ROAD 679 (PINELLAS BAYWAY) over
BOCA CIEGA BAY from YACHT CLUB LANE
to BAHIA DEL MAR BOULEVARD
ST. PETERSBURG, PINELLAS COUNTY, FLORIDA
FPN 410755-2-C2-01

DESIGNED: NM	DRAWN: SDJF	PROJECT NO.: 150929	FIGURE: 5
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Appendix A
Scope of Services

ATTACHMENT "A"
SCOPE OF SERVICES
FOR
LEVEL II CONTAMINATION ASSESSMENT
FOR
FOR S.R. 679 (PINELLAS BAYWAY STRUCTURE E)
AT INTRACOASTAL WATERWAY
ST. PETERSBURG, PINELLAS COUNTY, FLORIDA

FINANCIAL PROJECT NUMBER

410755-2-C2-01

FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT 7

I. DESCRIPTION:

Consultant services are required for a Level II contamination assessment for S.R. 679 (Pinellas Bayway Structure E) at Intracoastal Waterway, Financial Project Number (FPN) 410755-2-C2-01, in Pinellas County, Florida.

II. OBJECTIVES:

Based on PD&E Study from PBS&J, dated January 2007, revised June 2008, for the referenced project, there are five sites that may impact construction. The sites of concern are as follows:

- Site 1: Tierra Verde Resort & Marina, 200 Madonna Boulevard, Station 268+50.
- Site 2: 7-Eleven Food Store #29301, 150 Pinellas Bayway South, Station 270 + 50.
- Site 3: Deltona Corporation, Pinellas Boulevard and Madonna Boulevard, Station 278+00.
- Site 4: Texaco-Tierra Verde Marina/BP Station, 100 Pinellas Bayway, Station 273+00 and 278+00.
- Site 5: Tierra Verde Bridge, Structure E at Bridge #150049, Station 285+00.

For the Level II assessment, the Consultant shall determine the presence and extent of contamination, determine if soil or groundwater contamination will impact the planned work, and provide recommendations to the Florida Department of Transportation (FDOT) for additional evaluations, investigations, or remediation activities to be completed, and preparation of a technically concise report to document services performed.

III. PROVISIONS FOR WORK:

All work shall be performed in accordance with the applicable rules and regulations of the Florida Department of Environmental Protection (FDEP) and all other pertinent state and federal authorities.

IV. SERVICES:

TASK 1 - Soil and Groundwater Sampling

- A. Prepare a site-specific health and safety plan to ensure a safe working environment.

- B. Request utility mark outs (i.e., setbacks, stations, and vertical and horizontal elevations) with a utility locator service to identify and adequately mark all underground utilities in the areas where subsurface investigation will occur.
- C. As required, advance soil borings at the field determined locations at up to five medium and high risk sites as determined in the PD&E Study. These boring locations may be at or adjacent to proposed structure, pipe, or utility locations; along proposed right-of-way lines; at suspect onsite locations; adjacent to storm water management facilities; or in other locations as determined by the onsite geologist. Utilizing direct-push technology or hand augers advance each boring to one foot below the water table surface or up to two feet below the depth of proposed construction.
- D. Collect duplicate soil samples at 12-inch depth intervals to the water table surface and place them into glass sample jars for screening with an organic vapor analyzer equipped with a flame-ionization detector at each boring location, in accordance with Rule 62-770.200(12), Florida Administrative Code. First, screen one sample without a carbon filter, then screen the other sample with a filter to determine the fraction of methane in each sample. Record the net resultant vapor measurement as the hydrocarbon vapor concentration. Note lithology and depth to groundwater for each boring.
- E. Collect up to five soil samples, one from each medium and high risk site as determined in the Limited Level I Investigation, for laboratory analyses for parameters consistent with known or suspected contaminants of concern. Laboratory soil sample depth and location will be field-determined and representative of soils exhibiting elevated hydrocarbon vapor concentration based on field-screening results, soil staining or odor, contact with buried solid waste, suspect spills, or other surface soil impacts.
- F. Construct temporary wells in the same borings from which the laboratory soil samples were collected at each medium and high risk site. Collect up to five groundwater samples from the temporary wells for laboratory analyses. Purge the well in accordance with Florida Department of Environmental Protection (FDEP) Standard Operation Procedures (DEP-SOP-01/001), February 1, 2004. The samples will be collected by low-flow sampling techniques and submitted for parameters consistent with known or suspected contaminants of concern.
- G. Properly decontaminate tools and equipment before use and between drilling locations in accordance with the DEP-SOP-01/001.

- H. Identify all monitoring wells, recovery wells, and contamination related potential obstructions to construction, etc. within or adjacent to the existing or proposed right of way that the proposed construction project will adversely impact.
- I. Submit a Level II Report to the department. The report will be technically concise and will include data collected, analyses, and recommendations made as a result of the Level II Assessment. Include graphics, tables, and appendices to completely illustrate the assessment effort. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary. Submit one draft report and upon approval, submit one final hard copy and three final electronic (compact disk) copies of the report.

TASK 2 - Design and Right-of-Way Support

- J. When requested, review FDOT construction plans and other relevant documents for potential contamination and remediation related issues for proposed construction and provide recommendations to FDOT.
- K. Prepare for and attend project and program planning meetings with the FDOT and associated FDOT consultants, as necessary, to evaluate options and determine the best approaches for the project.
- L. Prepare briefing documents, charts, tables, figures and presentations related to contamination issues for various projects. Provide recommendations for right-of-way and construction support activities as needed. Provide hard copies and electronic copies of prepared materials as requested by the FDOT.
- M. Provide assistance to the FDOT in preparing and reviewing contamination notes to be included with construction plans.
- N. Perform public record searches for various sites as requested by FDOT. Review state, local, and federal databases to secure lists and other information about the past and present users of hazardous materials; generators of hazardous waste, pollutants, industrial waste, and solid waste; and storage tanks (above or below ground), as well as other potential soil and groundwater contaminants. Report problems with their usage (Notices of Violation, non-compliance documents, Consent Orders, etc.).
- O. Provide other consulting services as requested by the FDOT.

V. DEPARTMENT RESPONSIBILITIES:

The FDOT may opt to provide any liaison function necessary to accomplish the work. Any questions concerning this project should be directed to Roberto Gonzalez, REM, FCCN, Telephone number (813) 975-6923, email roberto.gonzalez@dot.state.fl.us.

VI. LENGTH OF SERVICES:

Services will end upon project completion.

Appendix B
Laboratory Analytical Reports and
Chain-of-Custody Records



NELAP Certificate No. E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

24 January 2014
Lab Work Order (COC): 1312117

RE: SR679 Pinellas Bayway Structure E
Project Location: Site 1: Tierra Verde Resort & Marina
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **16-Jan-14 17:30**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-15 @ 3'	1312117-01	Soil	15-Jan-14 11:45	16-Jan-14 11:45
TW-1	1312117-02	Ground Water	16-Jan-14 15:23	16-Jan-14 17:30



NELAP Certificate No. E84880



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 14:01			
					Analyzed: 21-Jan-14 14:01			
EPA Method 8260C - VOC/FULL					Batch: B401135			
Dichlorodifluoromethane	0.00203 U	0.00247	0.00203	mg/kg dry	0.943			
Chloromethane	0.00181 U	0.00247	0.00181	mg/kg dry	0.943			
Vinyl Chloride	0.00161 U	0.00247	0.00161	mg/kg dry	0.943			
Bromomethane	0.00266 U	0.00617	0.00266	mg/kg dry	0.943			
Chloroethane	0.00107 U	0.00247	0.00107	mg/kg dry	0.943			
Trichlorofluoromethane	0.00155 U	0.00247	0.00155	mg/kg dry	0.943			
1,1-Dichloroethene	0.00159 U	0.00247	0.00159	mg/kg dry	0.943			
Acetone	0.0132	0.0617	0.00452	mg/kg dry	0.943			I
Iodomethane (Methyl Iodide)	0.0140 U	0.0617	0.0140	mg/kg dry	0.943			
Carbon Disulfide	0.000903	0.0123	0.000822	mg/kg dry	0.943			I
Methylene Chloride	0.0182 U	0.0247	0.0182	mg/kg dry	0.943			
trans-1,2-Dichloroethene	0.00156 U	0.00247	0.00156	mg/kg dry	0.943			
Methyl tert-Butyl Ether (MTBE)	0.00156 U	0.00247	0.00156	mg/kg dry	0.943			
1,1-Dichloroethane	0.00130 U	0.00247	0.00130	mg/kg dry	0.943			
Vinyl Acetate	0.0119 U	0.0123	0.0119	mg/kg dry	0.943			
2,2-Dichloropropane	0.00190 U	0.00247	0.00190	mg/kg dry	0.943			
cis-1,2-Dichloroethene	0.00157 U	0.00247	0.00157	mg/kg dry	0.943			
2-Butanone (MEK)	0.00591 U	0.0123	0.00591	mg/kg dry	0.943			
Bromochloromethane	0.000949 U	0.00247	0.000949	mg/kg dry	0.943			
Chloroform	0.000804 U	0.00247	0.000804	mg/kg dry	0.943			
1,1,1-Trichloroethane	0.00141 U	0.00247	0.00141	mg/kg dry	0.943			
Carbon Tetrachloride	0.00179 U	0.00247	0.00179	mg/kg dry	0.943			
1,1-Dichloropropene	0.00187 U	0.00247	0.00187	mg/kg dry	0.943			
Benzene	0.00153 U	0.00247	0.00153	mg/kg dry	0.943			
1,2-Dichloroethane	0.00107 U	0.00247	0.00107	mg/kg dry	0.943			
Trichloroethene (TCE)	0.00158 U	0.00247	0.00158	mg/kg dry	0.943			
1,2-Dichloropropane	0.00134 U	0.00247	0.00134	mg/kg dry	0.943			
Dibromomethane	0.000845 U	0.00247	0.000845	mg/kg dry	0.943			
Bromodichloromethane	0.000675 U	0.00247	0.000675	mg/kg dry	0.943			
2-Chloroethyl Vinyl Ether	0.00440 U	0.0123	0.00440	mg/kg dry	0.943			
cis-1,3-Dichloropropene	0.00124 U	0.00247	0.00124	mg/kg dry	0.943			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 14:01			
EPA Method 8260C - VOC/FULL					Analyzed: 21-Jan-14 14:01		Batch: B401135	
4-Methyl-2-Pentanone (MIBK)	0.00600 U	0.0247	0.00600	mg/kg dry	0.943			
2-Hexanone	0.00683 U	0.0247	0.00683	mg/kg dry	0.943			
Toluene	0.00149 U	0.00247	0.00149	mg/kg dry	0.943			
trans-1,3-Dichloropropene	0.00124 U	0.00247	0.00124	mg/kg dry	0.943			
1,1,2-Trichloroethane	0.000993 U	0.00247	0.000993	mg/kg dry	0.943			
Tetrachloroethene (PCE)	0.00103 U	0.0123	0.00103	mg/kg dry	0.943			
1,3-Dichloropropane	0.000990 U	0.00247	0.000990	mg/kg dry	0.943			
Dibromochloromethane	0.000636 U	0.0123	0.000636	mg/kg dry	0.943			
1,2-Dibromoethane (EDB)	0.00106 U	0.00247	0.00106	mg/kg dry	0.943			
Chlorobenzene	0.00118 U	0.00247	0.00118	mg/kg dry	0.943			
1,1,1,2-Tetrachloroethane	0.00100 U	0.00247	0.00100	mg/kg dry	0.943			
Ethylbenzene	0.00191 U	0.00247	0.00191	mg/kg dry	0.943			
m- & p-Xylenes	0.00525 U	0.00617	0.00525	mg/kg dry	0.943			
o-Xylene	0.00231 U	0.00247	0.00231	mg/kg dry	0.943			
Styrene	0.00192 U	0.00247	0.00192	mg/kg dry	0.943			
Bromoform	0.00125 U	0.00247	0.00125	mg/kg dry	0.943			
Isopropylbenzene (Cumene)	0.00235 U	0.00247	0.00235	mg/kg dry	0.943			
Bromobenzene	0.00131 U	0.00247	0.00131	mg/kg dry	0.943			
1,1,2,2-Tetrachloroethane	0.00124 U	0.00247	0.00124	mg/kg dry	0.943			
1,2,3-Trichloropropane	0.00202 U	0.00247	0.00202	mg/kg dry	0.943			
n-Propylbenzene	0.00225 U	0.00617	0.00225	mg/kg dry	0.943			
2-Chlorotoluene	0.00195 U	0.00247	0.00195	mg/kg dry	0.943			
4-Chlorotoluene	0.00204 U	0.00247	0.00204	mg/kg dry	0.943			
1,3,5-Trimethylbenzene	0.00218 U	0.00247	0.00218	mg/kg dry	0.943			
tert-Butyl Benzene	0.00228 U	0.00247	0.00228	mg/kg dry	0.943			
1,2,4-Trimethylbenzene	0.00326 U	0.00617	0.00326	mg/kg dry	0.943			
sec-Butyl Benzene	0.00223 U	0.00247	0.00223	mg/kg dry	0.943			
1,3-Dichlorobenzene	0.00165 U	0.00247	0.00165	mg/kg dry	0.943			
p-Isopropyltoluene	0.00201 U	0.00247	0.00201	mg/kg dry	0.943			
1,4-Dichlorobenzene	0.00154 U	0.00247	0.00154	mg/kg dry	0.943			
1,2-Dichlorobenzene	0.00173 U	0.00247	0.00173	mg/kg dry	0.943			



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SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 14:01								
Analyzed: 21-Jan-14 14:01								
Batch: B401135								
EPA Method 8260C - VOC/FULL								
n-Butyl Benzene	0.00260 U	0.00617	0.00260	mg/kg dry	0.943			
1,2-Dibromo-3-Chloropropane	0.00135 U	0.00617	0.00135	mg/kg dry	0.943			
1,2,4-Trichlorobenzene	0.00243 U	0.00247	0.00243	mg/kg dry	0.943			
Naphthalene	0.00324 U	0.00494	0.00324	mg/kg dry	0.943			
Hexachlorobutadiene	0.00224 U	0.00370	0.00224	mg/kg dry	0.943			
1,2,3-Trichlorobenzene	0.000224 U	0.00247	0.000224	mg/kg dry	0.943			
Surrogate: Dibromofluoromethane	50.3			ug/kg		101 %	80-120	
Surrogate: 1,2-Dichloroethane-d4	48.8			ug/kg		98 %	80-120	
Surrogate: Toluene-d8	50.0			ug/kg		100 %	80-120	
Surrogate: 4-Bromofluorobenzene	50.0			ug/kg		100 %	68-120	
Prepared: 20-Jan-14 13:11								
Analyzed: 20-Jan-14 23:10								
Batch: B401105								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	0.0301 U	0.0655	0.0301	mg/kg dry	1			
1,2,4-Trichlorobenzene	0.0284 U	0.0655	0.0284	mg/kg dry	1			
1,2-Dichlorobenzene	0.0419 U	0.0655	0.0419	mg/kg dry	1			
1,3-Dichlorobenzene	0.0786 U	0.131	0.0786	mg/kg dry	1			
1,4-Dichlorobenzene	0.0682 U	0.131	0.0682	mg/kg dry	1			
1-Methylnaphthalene	0.0295 U	0.0655	0.0295	mg/kg dry	1			
2,4,5-Trichlorophenol	0.0728 U	0.131	0.0728	mg/kg dry	1			
1-Chloronaphthalene	0.0314 U	0.0655	0.0314	mg/kg dry	1			
2,4,6-Trichlorophenol	0.0964 U	0.131	0.0964	mg/kg dry	1			
1-Naphthylamine	0.0812 U	0.196	0.0812	mg/kg dry	1			
2,4-Dichlorophenol	0.0733 U	0.131	0.0733	mg/kg dry	1			
2,3,4,6-Tetrachlorophenol	0.0589 U	0.131	0.0589	mg/kg dry	1			
2,4-Dimethylphenol	0.0699 U	0.262	0.0699	mg/kg dry	1			
2,4-Dinitrophenol	0.137 U	0.262	0.137	mg/kg dry	1			
2,4-Dinitrotoluene	0.0160 U	0.0655	0.0160	mg/kg dry	1			
2,6-Dichlorophenol	0.0520 U	0.0655	0.0520	mg/kg dry	1			
2-Chloronaphthalene	0.0302 U	0.0655	0.0302	mg/kg dry	1			
2-Chlorophenol	0.0930 U	0.131	0.0930	mg/kg dry	1			



NELAP Certificate No. E84880



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Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 20-Jan-14 13:11			
EPA Method 8270D - BNAs					Analyzed: 20-Jan-14 23:10		Batch: B401105	
2-Methylnaphthalene	0.0410 U	0.0655	0.0410	mg/kg dry	1			
2,6-Dinitrotoluene	0.0170 U	0.0655	0.0170	mg/kg dry	1			
2-Methylphenol	0.0523 U	0.0655	0.0523	mg/kg dry	1			
2-Nitroaniline	0.0485 U	0.0655	0.0485	mg/kg dry	1			
2-Nitrophenol	0.0478 U	0.262	0.0478	mg/kg dry	1			
3,3-Dichlorobenzidine	0.217 U	0.262	0.217	mg/kg dry	1			
3/4-Methylphenol	0.0658 U	0.131	0.0658	mg/kg dry	1			
3-Nitroaniline	0.0438 U	0.131	0.0438	mg/kg dry	1			
4-Bromophenyl-Phenylether	0.0457 U	0.0655	0.0457	mg/kg dry	1			
2-Naphthylamine	0.0406 U	0.0655	0.0406	mg/kg dry	1			
4-Chloro-3-Methylphenol	0.0691 U	0.131	0.0691	mg/kg dry	1			
4-Chloroaniline	0.0445 U	0.131	0.0445	mg/kg dry	1			
4-Chlorophenyl-Phenylether	0.0286 U	0.0655	0.0286	mg/kg dry	1			
4-Nitroaniline	0.0307 U	0.131	0.0307	mg/kg dry	1			
4-Nitrophenol	0.153 U	0.262	0.153	mg/kg dry	1			
Acenaphthene	0.0421 U	0.0655	0.0421	mg/kg dry	1			
4,6-Dinitro-2-Methylphenol	0.114 U	0.262	0.114	mg/kg dry	1			
Acenaphthylene	0.0140 U	0.0655	0.0140	mg/kg dry	1			
Anthracene	0.0208 U	0.0655	0.0208	mg/kg dry	1			
Benzo(a)anthracene	0.0205 U	0.0655	0.0205	mg/kg dry	1			
Benzo(a)pyrene	0.0194 U	0.0655	0.0194	mg/kg dry	1			
Benzo(b)fluoranthene	0.0244 U	0.0655	0.0244	mg/kg dry	1			
4-Dimethylaminoazobenzene	0.0262 U	0.0655	0.0262	mg/kg dry	1			
Benzo(g,h,i)perylene	0.0292 U	0.0655	0.0292	mg/kg dry	1			
Benzo(k)fluoranthene	0.0341 U	0.0655	0.0341	mg/kg dry	1			
Benzyl alcohol	0.0508 U	0.0655	0.0508	mg/kg dry	1			
bis(2-Chloroethoxy)methane	0.0316 U	0.0655	0.0316	mg/kg dry	1			
Bis(2-Chloroethyl)ether	0.0487 U	0.0655	0.0487	mg/kg dry	1			
Bis(2-chloroisopropyl)ether	0.0680 U	0.131	0.0680	mg/kg dry	1			
Bis(2-Ethylhexyl)phthalate	0.0195 U	0.0655	0.0195	mg/kg dry	1			
Aniline	0.0694 U	0.131	0.0694	mg/kg dry	1			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 20-Jan-14 13:11			
EPA Method 8270D - BNAs					Analyzed: 20-Jan-14 23:10		Batch: B401105	
Butylbenzylphthalate	0.0325 U	0.0655	0.0325	mg/kg dry	1			
Carbazole	0.0336 U	0.0655	0.0336	mg/kg dry	1			
Azobenzene	0.0262 U	0.0655	0.0262	mg/kg dry	1			
Chrysene	0.0258 U	0.0655	0.0258	mg/kg dry	1			
Benzidine	0.225 U	0.262	0.225	mg/kg dry	1			
Dibenzo(a,h)anthracene	0.0207 U	0.0655	0.0207	mg/kg dry	1			
Dibenzofuran	0.0335 U	0.0655	0.0335	mg/kg dry	1			
Diethylphthalate	0.0214 U	0.0655	0.0214	mg/kg dry	1			
Dimethylphthalate	0.0439 U	0.0655	0.0439	mg/kg dry	1			
Di-n-Butyl Phthalate	0.0269 U	0.0655	0.0269	mg/kg dry	1			
Di-n-Octyl Phthalate	0.0256 U	0.0655	0.0256	mg/kg dry	1			
Fluoranthene	0.0195 U	0.0655	0.0195	mg/kg dry	1			
Fluorene	0.0280 U	0.0655	0.0280	mg/kg dry	1			
Hexachlorobenzene	0.0507 U	0.0655	0.0507	mg/kg dry	1			
Hexachlorobutadiene	0.0507 U	0.0655	0.0507	mg/kg dry	1			
Hexachlorocyclopentadiene	0.0228 U	0.0655	0.0228	mg/kg dry	1			
Hexachloroethane	0.0327 U	0.0655	0.0327	mg/kg dry	1			
Indeno(1,2,3-cd)pyrene	0.0313 U	0.0655	0.0313	mg/kg dry	1			
Isophorone	0.0293 U	0.0655	0.0293	mg/kg dry	1			
Naphthalene	0.0277 U	0.0655	0.0277	mg/kg dry	1			
Nitrobenzene	0.0515 U	0.0655	0.0515	mg/kg dry	1			
N-Nitrosodi-n-butylamine	0.0291 U	0.0655	0.0291	mg/kg dry	1			
N-Nitroso-di-n-propylamine	0.0562 U	0.0655	0.0562	mg/kg dry	1			
N-Nitrosodiphenylamine	0.0415 U	0.0655	0.0415	mg/kg dry	1			
Pentachlorophenol	0.119 U	0.262	0.119	mg/kg dry	1			
Phenanthrene	0.0156 U	0.0655	0.0156	mg/kg dry	1			
Phenol	0.0708 U	0.131	0.0708	mg/kg dry	1			
Pyrene	0.0263 U	0.0655	0.0263	mg/kg dry	1			
N-Nitrosodiethylamine	0.0602 U	0.0655	0.0602	mg/kg dry	1			
N-Nitrosodimethylamine	0.0628 U	0.0655	0.0628	mg/kg dry	1			
N-Nitrosomethylethylamine	0.0458 U	0.0655	0.0458	mg/kg dry	1			



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Project Number: 150929
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Project Manager: Nathan Miller

Reported:
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Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 13:11								
Analyzed: 20-Jan-14 23:10								
Batch: B401105								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.0484 U	0.0655	0.0484	mg/kg dry	1			
N-Nitrosopiperidine	0.0458 U	0.0655	0.0458	mg/kg dry	1			
N-Nitrosopyrrolidine	0.0354 U	0.0655	0.0354	mg/kg dry	1			
o-Toluidine	0.0445 U	0.131	0.0445	mg/kg dry	1			
Pyridine	0.0864 U	0.262	0.0864	mg/kg dry	1			
Surrogate: 2,4,6-Tribromophenol	1.69			mg/kg dry			78 % 45-107	
Surrogate: 2-Fluorobiphenyl	0.806			mg/kg dry			74 % 50-100	
Surrogate: 2-Fluorophenol	1.49			mg/kg dry			68 % 36-100	
Surrogate: Nitrobenzene-d5	0.801			mg/kg dry			73 % 25-130	
Surrogate: Phenol-d5	1.70			mg/kg dry			78 % 34-109	
Surrogate: Terphenyl-d14	0.923			mg/kg dry			85 % 55-105	
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 13:46								
Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.000903 U	0.00131	0.000903	mg/kg dry	1			
beta-BHC	0.000851 U	0.00131	0.000851	mg/kg dry	1			
gamma-BHC	0.00115 U	0.00131	0.00115	mg/kg dry	1			
delta-BHC	0.000864 U	0.00131	0.000864	mg/kg dry	1			
Heptachlor	0.000995 U	0.00131	0.000995	mg/kg dry	1			
Aldrin	0.000720 U	0.00131	0.000720	mg/kg dry	1			
Heptachlor Epoxide	0.000759 U	0.00131	0.000759	mg/kg dry	1			
gamma-Chlordane	0.000668 U	0.00131	0.000668	mg/kg dry	1			
Endosulfan I	0.000668 U	0.00131	0.000668	mg/kg dry	1			
alpha-Chlordane	0.000642 U	0.00131	0.000642	mg/kg dry	1			
Dieldrin	0.000694 U	0.00131	0.000694	mg/kg dry	1			
4,4-DDE	0.000851 U	0.00131	0.000851	mg/kg dry	1			
Endrin	0.000720 U	0.00131	0.000720	mg/kg dry	1			
Endosulfan II	0.000668 U	0.00131	0.000668	mg/kg dry	1			
4,4-DDD	0.000864 U	0.00131	0.000864	mg/kg dry	1			
Endrin Aldehyde	0.000799 U	0.00131	0.000799	mg/kg dry	1			
Endosulfan Sulfate	0.000759 U	0.00131	0.000759	mg/kg dry	1			



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SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 13:46 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
4,4-DDT	0.000759 U	0.00131	0.000759	mg/kg dry	1			
Endrin Ketone	0.000890 U	0.00131	0.000890	mg/kg dry	1			
Methoxychlor	0.00109 U	0.00131	0.00109	mg/kg dry	1			
Chlordane	0.00707 U	0.0655	0.00707	mg/kg dry	1			
Toxaphene	0.0236 U	0.0655	0.0236	mg/kg dry	1			
Surrogate: TCMX	0.0114			mg/kg dry		104 %	47-122	
Surrogate: Decachlorobiphenyl	0.0158			mg/kg dry		145 %	23-150	
Prepared: 17-Jan-14 09:20								
Analyzed: 17-Jan-14 23:56 Batch: B401097								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.00209 U	0.0655	0.00209	mg/kg dry	1			
PCB 1221	0.00825 U	0.0655	0.00825	mg/kg dry	1			
PCB 1232	0.00301 U	0.0655	0.00301	mg/kg dry	1			
PCB 1242	0.00209 U	0.0655	0.00209	mg/kg dry	1			
PCB 1248	0.00420 U	0.0655	0.00420	mg/kg dry	1			
PCB 1254	0.00367 U	0.0655	0.00367	mg/kg dry	1			
PCB 1260	0.00223 U	0.0655	0.00223	mg/kg dry	1			
Surrogate: Decachlorobiphenyl	0.0569			mg/kg dry		130 %	28-148	
Prepared: 20-Jan-14 10:15								
Analyzed: 20-Jan-14 17:26 Batch: B401104								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	3.46 U	5.24	3.46	mg/kg dry	1			
Surrogate: o-Terphenyl	3.23			mg/kg dry		74 %	62-109	
Surrogate: n-Nonatriacontane	19.9			mg/kg dry		76 %	60-118	
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:41 Batch: B401099								
EPA Method 6010C - Metals by ICP								



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Reported:
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Lab Work Order (COC): 1312117

SB-15 @ 3'
1312117-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 17-Jan-14 14:13			
EPA Method 6010C - Metals by ICP					Analyzed: 20-Jan-14 11:41			
					Batch: B401099			
Arsenic	0.288 U	1.31	0.288	mg/kg dry	1			
Cadmium	0.127 U	0.655	0.127	mg/kg dry	1			
Chromium	0.432 U	1.31	0.432	mg/kg dry	1			
Lead	0.314 U	1.31	0.314	mg/kg dry	1			
					Prepared: 17-Jan-14 10:00			
SM 2540G - % Dry Solids					Analyzed: 17-Jan-14 16:32			
					Batch: B401098			
% Dry Solids	76.4	0.100	0.100	% by Weight	1			



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Project Number: 150929
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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 23:10			
EPA Method 8260C - VOC/FULL					Analyzed: 21-Jan-14 23:10		Batch: B401136	
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L	1			
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L	1			
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L	1			
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L	1			
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L	1			
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L	1			
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L	1			
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L	1			
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L	1			
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L	1			
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L	1			
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L	1			
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L	1			
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L	1			
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L	1			
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L	1			
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L	1			
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L	1			
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L	1			
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L	1			
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L	1			
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L	1			
2-Hexanone	4.00 U	20.0	4.00	ug/L	1			
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L	1			
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L	1			
Acetone	5.00 U	10.0	5.00	ug/L	1			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Bromobenzene	0.410 U	2.00	0.410	ug/L	1			
Bromochloromethane	0.500 U	5.00	0.500	ug/L	1			



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1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 23:10			
EPA Method 8260C - VOC/FULL					Analyzed: 21-Jan-14 23:10			
					Batch: B401136			
Bromodichloromethane	0.540 U	0.600	0.540	ug/L	1			
Bromoform	0.650 U	2.00	0.650	ug/L	1			
Bromomethane	2.00 U	5.00	2.00	ug/L	1			
Carbon Disulfide	0.800 U	2.00	0.800	ug/L	1			
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L	1			
Chlorobenzene	0.560 U	2.00	0.560	ug/L	1			
Chloroethane	1.17 U	2.00	1.17	ug/L	1			
Chloroform	1.00 U	2.00	1.00	ug/L	1			
Chloromethane	0.560 U	2.00	0.560	ug/L	1			
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L	1			
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L	1			
Dibromochloromethane	0.710 U	2.00	0.710	ug/L	1			
Dibromomethane	0.250 U	2.00	0.250	ug/L	1			
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L	1			
Ethylbenzene	0.500 U	2.00	0.500	ug/L	1			
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L	1			
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L	1			
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L	1			
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L	1			
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	1			
Methylene Chloride	2.50 U	5.00	2.50	ug/L	1			
Naphthalene	1.36 U	5.00	1.36	ug/L	1			
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L	1			
n-Propylbenzene	0.630 U	2.00	0.630	ug/L	1			
o-Xylene	0.660 U	2.00	0.660	ug/L	1			
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L	1			
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L	1			
Styrene	0.640 U	2.00	0.640	ug/L	1			
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L	1			
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L	1			
Toluene	0.580 U	2.00	0.580	ug/L	1			



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Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
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Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 23:10								
Analyzed: 21-Jan-14 23:10								
Batch: B401136								
EPA Method 8260C - VOC/FULL								
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L	1			
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L	1			
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L	1			
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L	1			
Vinyl Acetate	1.63 U	2.00	1.63	ug/L	1			
Vinyl Chloride	0.970 U	1.00	0.970	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	49.5			ug/L			99 % 80-120	
Surrogate: 4-Bromofluorobenzene	48.9			ug/L			98 % 80-120	
Surrogate: Dibromofluoromethane	51.8			ug/L			104 % 80-120	
Surrogate: Toluene-d8	48.9			ug/L			98 % 80-120	
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:52								
Batch: B401120								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L	1			
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L	1			
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L	1			
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L	1			
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L	1			
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L	1			
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L	1			
1-Naphthylamine	5.03 U	10.0	5.03	ug/L	1			
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L	1			
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L	1			
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L	1			
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L	1			
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L	1			
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L	1			
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L	1			
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L	1			
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L	1			
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L	1			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:52								
Batch: B401120								
EPA Method 8270D - BNAs								
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L	1			
2-Chlorophenol	1.47 U	5.00	1.47	ug/L	1			
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L	1			
2-Methylphenol	0.534 U	5.00	0.534	ug/L	1			
2-Naphthylamine	2.37 U	10.0	2.37	ug/L	1			
2-Nitroaniline	0.892 U	20.0	0.892	ug/L	1			
2-Nitrophenol	1.73 U	20.0	1.73	ug/L	1			
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L	1			
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L	1			
3-Nitroaniline	1.26 U	5.00	1.26	ug/L	1			
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L	1			
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L	1			
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L	1			
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L	1			
4-Chloroaniline	2.88 U	5.00	2.88	ug/L	1			
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L	1			
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L	1			
4-Nitroaniline	1.20 U	5.00	1.20	ug/L	1			
4-Nitrophenol	0.717 U	20.0	0.717	ug/L	1			
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L	1			
Acenaphthene	0.0640 U	1.00	0.0640	ug/L	1			
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L	1			
Aniline	3.70 U	4.00	3.70	ug/L	1			
Anthracene	0.0670 U	0.300	0.0670	ug/L	1			
Azobenzene	0.785 U	1.00	0.785	ug/L	1			
Benidine	5.70 U	50.0	5.70	ug/L	1			
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L	1			
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L	1			
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L	1			
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L	1			
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L	1			



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Project Number: 150929
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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:52								
Batch: B401120								
EPA Method 8270D - BNAs								
Benzyl alcohol	0.386 U	5.00	0.386	ug/L	1			
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L	1			
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L	1			
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L	1			
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L	1			
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L	1			
Carbazole	0.521 U	5.00	0.521	ug/L	1			
Chrysene	0.135 U	0.200	0.135	ug/L	1			
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L	1			
Dibenzofuran	0.716 U	5.00	0.716	ug/L	1			
Diethylphthalate	0.795 U	5.00	0.795	ug/L	1			
Dimethylphthalate	0.617 U	5.00	0.617	ug/L	1			
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Fluoranthene	0.0910 U	0.300	0.0910	ug/L	1			
Fluorene	0.0660 U	1.00	0.0660	ug/L	1			
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L	1			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L	1			
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L	1			
Hexachloroethane	1.53 U	5.00	1.53	ug/L	1			
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L	1			
Isophorone	1.00 U	5.00	1.00	ug/L	1			
Naphthalene	0.0640 U	1.00	0.0640	ug/L	1			
Nitrobenzene	0.746 U	3.50	0.746	ug/L	1			
o-Toluidine	3.32 U	5.00	3.32	ug/L	1			
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L	1			
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L	1			
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L	1			
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L	1			
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L	1			
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L	1			



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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:52 Batch: B401120								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L	1			
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L	1			
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L	1			
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L	1			
Pentachlorophenol	1.72 U	20.0	1.72	ug/L	1			
Phenanthrene	0.0780 U	0.200	0.0780	ug/L	1			
Phenol	0.796 U	6.50	0.796	ug/L	1			
Pyrene	0.0930 U	0.300	0.0930	ug/L	1			
Pyridine	0.689 U	5.00	0.689	ug/L	1			
Surrogate: 2,4,6-Tribromophenol	28.4			ug/L			57 % 15-122	
Surrogate: 2-Fluorobiphenyl	17.0			ug/L			68 % 49-100	
Surrogate: 2-Fluorophenol	13.4			ug/L			27 % 1-100	
Surrogate: Nitrobenzene-d5	14.9			ug/L			60 % 47-106	
Surrogate: Phenol-d5	10.4			ug/L			21 % 2-100	
Surrogate: Terphenyl-d14	20.2			ug/L			81 % 56-108	
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 02:35 Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
beta-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
gamma-BHC	0.00400 U	0.100	0.00400	ug/L	1			
delta-BHC	0.00300 U	0.0500	0.00300	ug/L	1			
Heptachlor	0.00300 U	0.0500	0.00300	ug/L	1			
Aldrin	0.00200 U	0.0500	0.00200	ug/L	1			
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L	1			
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Endosulfan I	0.00200 U	0.100	0.00200	ug/L	1			
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Dieldrin	0.00200 U	0.100	0.00200	ug/L	1			
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L	1			
Endrin	0.00200 U	0.200	0.00200	ug/L	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 02:35								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
Endosulfan II	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L	1			
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L	1			
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDT	0.00400 U	0.200	0.00400	ug/L	1			
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L	1			
Methoxychlor	0.00400 U	0.200	0.00400	ug/L	1			
Chlordane	0.150 U	1.00	0.150	ug/L	1			
Toxaphene	0.520 U	1.00	0.520	ug/L	1			
Surrogate: TCMX	0.0210			ug/L		84 %	51-116	
Surrogate: Decachlorobiphenyl	0.0330			ug/L		132 %	67-116	J2
Prepared: 21-Jan-14 10:41								
Analyzed: 22-Jan-14 23:40								
Batch: B401119								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.163 U	0.500	0.163	ug/L	1			
PCB 1221	0.108 U	0.500	0.108	ug/L	1			
PCB 1232	0.141 U	0.500	0.141	ug/L	1			
PCB 1242	0.191 U	0.500	0.191	ug/L	1			
PCB 1248	0.133 U	0.500	0.133	ug/L	1			
PCB 1254	0.0950 U	0.500	0.0950	ug/L	1			
PCB 1260	0.144 U	0.500	0.144	ug/L	1			
Surrogate: Decachlorobiphenyl	0.519			ug/L		52 %	26-105	
Prepared: 17-Jan-14 14:31								
Analyzed: 20-Jan-14 09:54								
Batch: B401095								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	184	400	171	ug/L	1			I
Surrogate: o-Terphenyl	82.0			ug/L		82 %	82-142	
Surrogate: n-Nonatriacontane	528			ug/L		88 %	42-193	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

TW-1
1312117-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 14:06								
Analyzed: 22-Jan-14 14:07 Batch: B401107								
EPA Method 6010C - Metals by ICP								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Prepared: 20-Jan-14 14:32								
Analyzed: 21-Jan-14 13:07 Batch: B401109								
EPA Method 6010C - Metals by ICP (Lab-Filtered)								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	RPD	RPD	RPD	Qualifiers
							Limits	Limit	Limit		
Batch: B401113 - Prep Method: 5030B											
Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19			Analyzed: 18-Jan-14 08:19			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L							
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L							
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L							
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L							
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L							
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L							
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L							
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L							
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L							
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L							
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L							
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L							
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L							
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L							
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L							
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L							
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L							
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L							
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L							
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L							
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L							
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L							
2-Hexanone	4.00 U	20.0	4.00	ug/L							
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L							
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L							
Acetone	5.00 U	10.0	5.00	ug/L							
Benzene	0.450 U	1.00	0.450	ug/L							
Bromobenzene	0.410 U	2.00	0.410	ug/L							
Bromochloromethane	0.500 U	5.00	0.500	ug/L							
Bromodichloromethane	0.540 U	0.600	0.540	ug/L							
Bromoform	0.650 U	2.00	0.650	ug/L							



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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	RPD Limit	Qualifiers	

Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1) Prepared: 18-Jan-14 08:19 Analyzed: 18-Jan-14 08:19

Bromomethane	2.00 U	5.00	2.00	ug/L
Carbon Disulfide	0.800 U	2.00	0.800	ug/L
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L
Chlorobenzene	0.560 U	2.00	0.560	ug/L
Chloroethane	1.17 U	2.00	1.17	ug/L
Chloroform	1.00 U	2.00	1.00	ug/L
Chloromethane	0.560 U	2.00	0.560	ug/L
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L
Dibromochloromethane	0.710 U	2.00	0.710	ug/L
Dibromomethane	0.250 U	2.00	0.250	ug/L
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L
Ethylbenzene	0.500 U	2.00	0.500	ug/L
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L
Methylene Chloride	2.50 U	5.00	2.50	ug/L
Naphthalene	1.36 U	5.00	1.36	ug/L
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L
n-Propylbenzene	0.630 U	2.00	0.630	ug/L
o-Xylene	0.660 U	2.00	0.660	ug/L
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L
Styrene	0.640 U	2.00	0.640	ug/L
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L
Toluene	0.580 U	2.00	0.580	ug/L
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L



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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)				Prepared: 18-Jan-14 08:19			Analyzed: 18-Jan-14 08:19				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	50.6			ug/L	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	51.6			ug/L	50.0		103	80-120			
Surrogate: Dibromofluoromethane	49.9			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS (B401113-BS1)				Prepared: 18-Jan-14 08:48			Analyzed: 18-Jan-14 08:48				
1,1,1,2-Tetrachloroethane	39.4	1.30	0.700	ug/L	40.0		98	72-124			
1,1,1-Trichloroethane	42.8	2.00	0.600	ug/L	40.0		107	76-122			
1,1,2,2-Tetrachloroethane	39.8	0.500	0.410	ug/L	40.0		100	71-112			
1,1,2-Trichloroethane	39.4	2.00	0.330	ug/L	40.0		99	79-110			
1,1-Dichloroethane	41.4	2.00	0.250	ug/L	40.0		104	80-112			
1,1-Dichloroethene	41.0	2.00	1.14	ug/L	40.0		103	74-122			
1,1-Dichloropropene	43.4	2.00	0.800	ug/L	40.0		108	83-116			
1,2,3-Trichlorobenzene	41.5	2.00	0.720	ug/L	40.0		104	76-116			
1,2,3-Trichloropropane	39.3	0.500	0.320	ug/L	40.0		98	71-115			
1,2,4-Trichlorobenzene	41.1	2.00	0.760	ug/L	40.0		103	73-118			
1,2,4-Trimethylbenzene	44.3	2.00	0.690	ug/L	40.0		111	80-119			
1,2-Dibromo-3-Chloropropane	38.8	2.00	1.05	ug/L	40.0		97	43-135			
1,2-Dibromoethane (EDB)	39.4	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	41.2	2.00	0.470	ug/L	40.0		103	80-110			
1,2-Dichloroethane	39.2	2.00	0.380	ug/L	40.0		98	73-116			
1,2-Dichloropropane	40.6	2.00	0.410	ug/L	40.0		101	78-113			
1,3,5-Trimethylbenzene	44.1	2.00	0.640	ug/L	40.0		110	80-118			
1,3-Dichlorobenzene	41.2	2.00	0.490	ug/L	40.0		103	80-110			
1,3-Dichloropropane	39.4	4.00	0.300	ug/L	40.0		98	80-109			
1,4-Dichlorobenzene	40.1	2.00	0.490	ug/L	40.0		100	78-107			
2,2-Dichloropropane	47.2	7.00	0.770	ug/L	40.0		118	51-138			
2-Butanone (MEK)	88.4	20.0	5.00	ug/L	100		88	57-129			
2-Chloroethyl Vinyl Ether	91.8	5.00	1.61	ug/L	100		92	45-145			
2-Chlorotoluene	42.1	2.00	0.450	ug/L	40.0		105	78-113			
2-Hexanone	102	20.0	4.00	ug/L	100		102	58-135			
4-Chlorotoluene	42.6	2.00	0.500	ug/L	40.0		107	79-115			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1) Prepared: 18-Jan-14 08:48 Analyzed: 18-Jan-14 08:48

4-Methyl-2-Pentanone (MIBK)	98.4	20.0	4.00	ug/L	100	98	65-135
Acetone	104	10.0	5.00	ug/L	100	104	55-127
Benzene	41.7	1.00	0.450	ug/L	40.0	104	82-113
Bromobenzene	40.5	2.00	0.410	ug/L	40.0	101	80-114
Bromochloromethane	39.5	5.00	0.500	ug/L	40.0	99	81-115
Bromodichloromethane	40.7	0.600	0.540	ug/L	40.0	102	76-117
Bromoform	38.6	2.00	0.650	ug/L	40.0	97	64-126
Bromomethane	42.2	5.00	2.00	ug/L	40.0	105	40-138
Carbon Disulfide	41.7	2.00	0.800	ug/L	40.0	104	78-116
Carbon Tetrachloride	43.7	2.00	0.700	ug/L	40.0	109	74-129
Chlorobenzene	40.7	2.00	0.560	ug/L	40.0	102	79-112
Chloroethane	39.8	2.00	1.17	ug/L	40.0	100	70-116
Chloroform	39.4	2.00	1.00	ug/L	40.0	99	72-115
Chloromethane	41.0	2.00	0.560	ug/L	40.0	102	71-117
cis-1,2-Dichloroethene	41.0	5.00	0.500	ug/L	40.0	102	83-112
cis-1,3-Dichloropropene	41.6	0.500	0.260	ug/L	40.0	104	78-120
Dibromochloromethane	40.6	2.00	0.710	ug/L	40.0	102	72-122
Dibromomethane	39.1	2.00	0.250	ug/L	40.0	98	77-115
Dichlorodifluoromethane	42.8	2.00	0.930	ug/L	40.0	107	63-129
Ethylbenzene	43.4	2.00	0.500	ug/L	40.0	109	82-116
Hexachlorobutadiene	39.1	3.00	2.00	ug/L	40.0	98	68-117
Iodomethane (Methyl Iodide)	29.9	20.0	12.2	ug/L	40.0	75	30-127
Isopropylbenzene (Cumene)	44.9	2.00	0.760	ug/L	40.0	112	80-122
m- & p-Xylenes	87.7	4.00	1.23	ug/L	80.0	110	81-120
Methyl tert-Butyl Ether (MTBE)	39.4	3.00	0.250	ug/L	40.0	98	71-115
Methylene Chloride	35.4	5.00	2.50	ug/L	40.0	89	73-119
Naphthalene	41.5	5.00	1.36	ug/L	40.0	104	67-117
n-Butyl Benzene	44.9	2.00	1.10	ug/L	40.0	112	78-121
n-Propylbenzene	44.1	2.00	0.630	ug/L	40.0	110	79-117
o-Xylene	43.4	2.00	0.660	ug/L	40.0	109	80-119
p-Isopropyltoluene	43.7	2.00	0.780	ug/L	40.0	109	78-117
sec-Butyl Benzene	44.6	2.00	0.800	ug/L	40.0	112	79-119
Styrene	43.5	2.00	0.640	ug/L	40.0	109	83-121



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
tert-Butyl Benzene	45.0	2.00	0.690	ug/L	40.0		112	76-119			
Tetrachloroethene (PCE)	38.2	2.00	1.50	ug/L	40.0		96	62-140			
Toluene	41.9	2.00	0.580	ug/L	40.0		105	80-112			
trans-1,2-Dichloroethene	41.1	2.00	0.500	ug/L	40.0		103	81-114			
trans-1,3-Dichloropropene	40.6	2.00	0.450	ug/L	40.0		102	70-119			
Trichloroethene (TCE)	41.8	2.00	0.740	ug/L	40.0		105	80-115			
Trichlorofluoromethane	42.7	2.00	1.10	ug/L	40.0		107	66-135			
Vinyl Acetate	106	2.00	1.63	ug/L	100		106	56-135			
Vinyl Chloride	42.4	1.00	0.970	ug/L	40.0		106	72-122			

Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	49.6			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	50.3			ug/L	50.0		101	80-120			

Matrix Spike (B401113-MS1)					Source: 1312093-01		Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05		
1,1,1,2-Tetrachloroethane	363	13.0	7.00	ug/L	400	7.00 U	91	72-132			
1,1,1-Trichloroethane	386	20.0	6.00	ug/L	400	6.00 U	96	76-133			
1,1,2,2-Tetrachloroethane	371	5.00	4.10	ug/L	400	4.10 U	93	64-121			
1,1,2-Trichloroethane	365	20.0	3.30	ug/L	400	3.30 U	91	79-113			
1,1-Dichloroethane	377	20.0	2.50	ug/L	400	2.50 U	94	81-121			
1,1-Dichloroethene	369	20.0	11.4	ug/L	400	11.4 U	92	76-131			
1,1-Dichloropropene	384	20.0	8.00	ug/L	400	8.00 U	96	85-125			
1,2,3-Trichlorobenzene	375	20.0	7.20	ug/L	400	7.20 U	94	74-126			
1,2,3-Trichloropropane	356	5.00	3.20	ug/L	400	3.20 U	89	66-118			
1,2,4-Trichlorobenzene	374	20.0	7.60	ug/L	400	7.60 U	94	70-131			
1,2,4-Trimethylbenzene	401	20.0	6.90	ug/L	400	6.90 U	100	73-135			
1,2-Dibromo-3-Chloropropane	345	20.0	10.5	ug/L	400	10.5 U	86	36-143			
1,2-Dibromoethane (EDB)	364	20.0	2.90	ug/L	400	2.90 U	91	76-120			
1,2-Dichlorobenzene	375	20.0	4.70	ug/L	400	4.70 U	94	79-117			
1,2-Dichloroethane	360	20.0	3.80	ug/L	400	3.80 U	90	72-123			
1,2-Dichloropropane	370	20.0	4.10	ug/L	400	4.10 U	92	78-122			
1,3,5-Trimethylbenzene	400	20.0	6.40	ug/L	400	6.40 U	100	77-132			
1,3-Dichlorobenzene	381	20.0	4.90	ug/L	400	4.90 U	95	81-117			
1,3-Dichloropropane	363	40.0	3.00	ug/L	400	3.00 U	91	79-114			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01			Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05				
1,4-Dichlorobenzene	364	20.0	4.90	ug/L	400	4.90 U	91	78-113			
2,2-Dichloropropane	390	70.0	7.70	ug/L	400	7.70 U	97	44-138			
2-Butanone (MEK)	787	200	50.0	ug/L	1000	50.0 U	79	48-136			
2-Chloroethyl Vinyl Ether	806	50.0	16.1	ug/L	1000	16.1 U	81	34-152			
2-Chlorotoluene	386	20.0	4.50	ug/L	400	4.50 U	96	71-132			
2-Hexanone	902	200	40.0	ug/L	1000	40.0 U	90	52-144			
4-Chlorotoluene	388	20.0	5.00	ug/L	400	5.00 U	97	77-125			
4-Methyl-2-Pentanone (MIBK)	902	200	40.0	ug/L	1000	40.0 U	90	64-141			
Acetone	895	100	50.0	ug/L	1000	50.0 U	89	48-133			
Benzene	381	10.0	4.50	ug/L	400	4.50 U	95	70-135			
Bromobenzene	371	20.0	4.10	ug/L	400	4.10 U	93	82-119			
Bromochloromethane	365	50.0	5.00	ug/L	400	5.00 U	91	82-121			
Bromodichloromethane	377	6.00	5.40	ug/L	400	5.40 U	94	75-126			
Bromoform	355	20.0	6.50	ug/L	400	6.50 U	89	63-129			
Bromomethane	160	50.0	20.0	ug/L	400	20.0 U	40	26-152			
Carbon Disulfide	391	20.0	8.00	ug/L	400	8.00 U	98	68-140			
Carbon Tetrachloride	392	20.0	7.00	ug/L	400	7.00 U	98	72-144			
Chlorobenzene	377	20.0	5.60	ug/L	400	5.60 U	94	82-116			
Chloroethane	363	20.0	11.7	ug/L	400	11.7 U	91	74-123			
Chloroform	367	20.0	10.0	ug/L	400	10.0 U	92	74-121			
Chloromethane	302	20.0	5.60	ug/L	400	5.60 U	76	70-125			
cis-1,2-Dichloroethene	373	50.0	5.00	ug/L	400	5.00 U	93	84-121			
cis-1,3-Dichloropropene	344	5.00	2.60	ug/L	400	2.60 U	86	73-127			
Dibromochloromethane	376	20.0	7.10	ug/L	400	7.10 U	94	71-129			
Dibromomethane	366	20.0	2.50	ug/L	400	2.50 U	92	76-120			
Dichlorodifluoromethane	388	20.0	9.30	ug/L	400	9.30 U	97	65-139			
Ethylbenzene	395	20.0	5.00	ug/L	400	5.00 U	99	74-134			
Hexachlorobutadiene	365	30.0	20.0	ug/L	400	20.0 U	91	68-123			
Iodomethane (Methyl Iodide)	133	200	122	ug/L	400	122 U	33	21-145			I
Isopropylbenzene (Cumene)	404	20.0	7.60	ug/L	400	7.60 U	101	76-136			
m- & p-Xylenes	796	40.0	12.3	ug/L	800	12.3 U	99	77-131			
Methyl tert-Butyl Ether (MTBE)	358	30.0	2.50	ug/L	400	2.50 U	89	64-123			
Methylene Chloride	321	50.0	25.0	ug/L	400	25.0 U	80	73-124			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01			Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05				
Naphthalene	381	50.0	13.6	ug/L	400	13.6 U	95	55-137			
n-Butyl Benzene	402	20.0	11.0	ug/L	400	11.0 U	101	68-139			
n-Propylbenzene	398	20.0	6.30	ug/L	400	6.30 U	100	69-135			
o-Xylene	391	20.0	6.60	ug/L	400	6.60 U	98	78-132			
p-Isopropyltoluene	393	20.0	7.80	ug/L	400	7.80 U	98	77-127			
sec-Butyl Benzene	403	20.0	8.00	ug/L	400	8.00 U	101	75-131			
Styrene	380	20.0	6.40	ug/L	400	6.40 U	95	80-134			
tert-Butyl Benzene	412	20.0	6.90	ug/L	400	6.90 U	103	78-132			
Tetrachloroethene (PCE)	328	20.0	15.0	ug/L	400	15.0 U	82	54-144			
Toluene	381	20.0	5.80	ug/L	400	5.80 U	95	82-120			
trans-1,2-Dichloroethene	375	20.0	5.00	ug/L	400	5.00 U	94	85-121			
trans-1,3-Dichloropropene	341	20.0	4.50	ug/L	400	4.50 U	85	62-126			
Trichloroethene (TCE)	377	20.0	7.40	ug/L	400	7.40 U	94	80-127			
Trichlorofluoromethane	387	20.0	11.0	ug/L	400	11.0 U	97	72-143			
Vinyl Acetate	987	20.0	16.3	ug/L	1000	16.3 U	99	46-145			
Vinyl Chloride	341	10.0	9.70	ug/L	400	9.70 U	85	75-131			

Surrogate: 1,2-Dichloroethane-d4	49.2			ug/L	50.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	50.1			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.8			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
1,1,1,2-Tetrachloroethane	396	13.0	7.00	ug/L	400	7.00 U	99	72-132	9	20	
1,1,1-Trichloroethane	425	20.0	6.00	ug/L	400	6.00 U	106	76-133	10	20	
1,1,2,2-Tetrachloroethane	405	5.00	4.10	ug/L	400	4.10 U	101	64-121	9	20	
1,1,2-Trichloroethane	389	20.0	3.30	ug/L	400	3.30 U	97	79-113	6	20	
1,1-Dichloroethane	413	20.0	2.50	ug/L	400	2.50 U	103	81-121	9	20	
1,1-Dichloroethene	402	20.0	11.4	ug/L	400	11.4 U	101	76-131	9	20	
1,1-Dichloropropene	415	20.0	8.00	ug/L	400	8.00 U	104	85-125	8	20	
1,2,3-Trichlorobenzene	423	20.0	7.20	ug/L	400	7.20 U	106	74-126	12	20	
1,2,3-Trichloropropane	398	5.00	3.20	ug/L	400	3.20 U	100	66-118	11	20	
1,2,4-Trichlorobenzene	416	20.0	7.60	ug/L	400	7.60 U	104	70-131	11	20	
1,2,4-Trimethylbenzene	442	20.0	6.90	ug/L	400	6.90 U	110	73-135	10	20	
1,2-Dibromo-3-Chloropropane	388	20.0	10.5	ug/L	400	10.5 U	97	36-143	12	20	



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Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01				Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35			
1,2-Dibromoethane (EDB)	398	20.0	2.90	ug/L	400	2.90 U	99	76-120	9	20	
1,2-Dichlorobenzene	415	20.0	4.70	ug/L	400	4.70 U	104	79-117	10	20	
1,2-Dichloroethane	387	20.0	3.80	ug/L	400	3.80 U	97	72-123	7	20	
1,2-Dichloropropane	396	20.0	4.10	ug/L	400	4.10 U	99	78-122	7	20	
1,3,5-Trimethylbenzene	440	20.0	6.40	ug/L	400	6.40 U	110	77-132	10	20	
1,3-Dichlorobenzene	412	20.0	4.90	ug/L	400	4.90 U	103	81-117	8	20	
1,3-Dichloropropane	391	40.0	3.00	ug/L	400	3.00 U	98	79-114	8	20	
1,4-Dichlorobenzene	399	20.0	4.90	ug/L	400	4.90 U	100	78-113	9	20	
2,2-Dichloropropane	430	70.0	7.70	ug/L	400	7.70 U	107	44-138	10	20	
2-Butanone (MEK)	890	200	50.0	ug/L	1000	50.0 U	89	48-136	12	20	
2-Chloroethyl Vinyl Ether	839	50.0	16.1	ug/L	1000	16.1 U	84	34-152	4	30	
2-Chlorotoluene	426	20.0	4.50	ug/L	400	4.50 U	107	71-132	10	20	
2-Hexanone	1000	200	40.0	ug/L	1000	40.0 U	100	52-144	11	20	
4-Chlorotoluene	427	20.0	5.00	ug/L	400	5.00 U	107	77-125	9	20	
4-Methyl-2-Pentanone (MIBK)	1020	200	40.0	ug/L	1000	40.0 U	102	64-141	12	20	
Acetone	1020	100	50.0	ug/L	1000	50.0 U	102	48-133	13	20	
Benzene	417	10.0	4.50	ug/L	400	4.50 U	104	70-135	9	20	
Bromobenzene	410	20.0	4.10	ug/L	400	4.10 U	103	82-119	10	20	
Bromochloromethane	385	50.0	5.00	ug/L	400	5.00 U	96	82-121	5	20	
Bromodichloromethane	409	6.00	5.40	ug/L	400	5.40 U	102	75-126	8	20	
Bromoform	386	20.0	6.50	ug/L	400	6.50 U	96	63-129	8	20	
Bromomethane	213	50.0	20.0	ug/L	400	20.0 U	53	26-152	28	20	J2
Carbon Disulfide	431	20.0	8.00	ug/L	400	8.00 U	108	68-140	10	20	
Carbon Tetrachloride	430	20.0	7.00	ug/L	400	7.00 U	107	72-144	9	20	
Chlorobenzene	411	20.0	5.60	ug/L	400	5.60 U	103	82-116	9	20	
Chloroethane	393	20.0	11.7	ug/L	400	11.7 U	98	74-123	8	20	
Chloroform	399	20.0	10.0	ug/L	400	10.0 U	100	74-121	8	20	
Chloromethane	331	20.0	5.60	ug/L	400	5.60 U	83	70-125	9	20	
cis-1,2-Dichloroethene	406	50.0	5.00	ug/L	400	5.00 U	101	84-121	8	20	
cis-1,3-Dichloropropene	376	5.00	2.60	ug/L	400	2.60 U	94	73-127	9	20	
Dibromochloromethane	407	20.0	7.10	ug/L	400	7.10 U	102	71-129	8	20	
Dibromomethane	393	20.0	2.50	ug/L	400	2.50 U	98	76-120	7	20	
Dichlorodifluoromethane	422	20.0	9.30	ug/L	400	9.30 U	106	65-139	9	20	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
Ethylbenzene	430	20.0	5.00	ug/L	400	5.00 U	107	74-134	8	20	J2
Hexachlorobutadiene	402	30.0	20.0	ug/L	400	20.0 U	100	68-123	10	20	
Iodomethane (Methyl Iodide)	236	200	122	ug/L	400	122 U	59	21-145	56	30	
Isopropylbenzene (Cumene)	447	20.0	7.60	ug/L	400	7.60 U	112	76-136	10	20	
m- & p-Xylenes	871	40.0	12.3	ug/L	800	12.3 U	109	77-131	9	20	
Methyl tert-Butyl Ether (MTBE)	395	30.0	2.50	ug/L	400	2.50 U	99	64-123	10	20	
Methylene Chloride	353	50.0	25.0	ug/L	400	25.0 U	88	73-124	9	20	
Naphthalene	436	50.0	13.6	ug/L	400	13.6 U	109	55-137	14	20	
n-Butyl Benzene	438	20.0	11.0	ug/L	400	11.0 U	109	68-139	8	20	
n-Propylbenzene	436	20.0	6.30	ug/L	400	6.30 U	109	69-135	9	20	
o-Xylene	434	20.0	6.60	ug/L	400	6.60 U	108	78-132	10	20	
p-Isopropyltoluene	429	20.0	7.80	ug/L	400	7.80 U	107	77-127	9	20	
sec-Butyl Benzene	442	20.0	8.00	ug/L	400	8.00 U	111	75-131	9	20	
Styrene	415	20.0	6.40	ug/L	400	6.40 U	104	80-134	9	20	
tert-Butyl Benzene	453	20.0	6.90	ug/L	400	6.90 U	113	78-132	10	20	
Tetrachloroethene (PCE)	351	20.0	15.0	ug/L	400	15.0 U	88	54-144	7	20	
Toluene	413	20.0	5.80	ug/L	400	5.80 U	103	82-120	8	20	
trans-1,2-Dichloroethene	411	20.0	5.00	ug/L	400	5.00 U	103	85-121	9	20	
trans-1,3-Dichloropropene	369	20.0	4.50	ug/L	400	4.50 U	92	62-126	8	20	
Trichloroethene (TCE)	417	20.0	7.40	ug/L	400	7.40 U	104	80-127	10	20	
Trichlorofluoromethane	418	20.0	11.0	ug/L	400	11.0 U	105	72-143	8	20	
Vinyl Acetate	1100	20.0	16.3	ug/L	1000	16.3 U	110	46-145	11	20	
Vinyl Chloride	377	10.0	9.70	ug/L	400	9.70 U	94	75-131	10	20	
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	51.0			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401135 - Prep Method: 5035 (low)

Blank (B401135-BLK1)

Prepared: 21-Jan-14 12:35

Analyzed: 21-Jan-14 12:35

Dichlorodifluoromethane	0.00164 U	0.00200	0.00164	mg/kg wet
Chloromethane	0.00147 U	0.00200	0.00147	mg/kg wet
Vinyl Chloride	0.00130 U	0.00200	0.00130	mg/kg wet
Bromomethane	0.00215 U	0.00500	0.00215	mg/kg wet
Chloroethane	0.000864 U	0.00200	0.000864	mg/kg wet
Trichlorofluoromethane	0.00125 U	0.00200	0.00125	mg/kg wet
1,1-Dichloroethene	0.00129 U	0.00200	0.00129	mg/kg wet
Acetone	0.00366 U	0.0500	0.00366	mg/kg wet
Iodomethane (Methyl Iodide)	0.0113 U	0.0500	0.0113	mg/kg wet
Carbon Disulfide	0.00109	0.0100	0.000666	mg/kg wet
Methylene Chloride	0.0147 U	0.0200	0.0147	mg/kg wet
trans-1,2-Dichloroethene	0.00126 U	0.00200	0.00126	mg/kg wet
Methyl tert-Butyl Ether (MTBE)	0.00126 U	0.00200	0.00126	mg/kg wet
1,1-Dichloroethane	0.00106 U	0.00200	0.00106	mg/kg wet
Vinyl Acetate	0.00964 U	0.0100	0.00964	mg/kg wet
2,2-Dichloropropane	0.00154 U	0.00200	0.00154	mg/kg wet
cis-1,2-Dichloroethene	0.00127 U	0.00200	0.00127	mg/kg wet
2-Butanone (MEK)	0.00479 U	0.0100	0.00479	mg/kg wet
Bromochloromethane	0.000769 U	0.00200	0.000769	mg/kg wet
Chloroform	0.000651 U	0.00200	0.000651	mg/kg wet
1,1,1-Trichloroethane	0.00114 U	0.00200	0.00114	mg/kg wet
Carbon Tetrachloride	0.00145 U	0.00200	0.00145	mg/kg wet
1,1-Dichloropropene	0.00152 U	0.00200	0.00152	mg/kg wet
Benzene	0.00124 U	0.00200	0.00124	mg/kg wet
1,2-Dichloroethane	0.000863 U	0.00200	0.000863	mg/kg wet
Trichloroethene (TCE)	0.00128 U	0.00200	0.00128	mg/kg wet
1,2-Dichloropropane	0.00109 U	0.00200	0.00109	mg/kg wet
Dibromomethane	0.000685 U	0.00200	0.000685	mg/kg wet
Bromodichloromethane	0.000547 U	0.00200	0.000547	mg/kg wet
2-Chloroethyl Vinyl Ether	0.00356 U	0.0100	0.00356	mg/kg wet
cis-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
4-Methyl-2-Pentanone (MIBK)	0.00486 U	0.0200	0.00486	mg/kg wet
2-Hexanone	0.00553 U	0.0200	0.00553	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401135 - Prep Method: 5035 (low)

Blank (B401135-BLK1)

Prepared: 21-Jan-14 12:35

Analyzed: 21-Jan-14 12:35

Toluene	0.00121 U	0.00200	0.00121	mg/kg wet
trans-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
1,1,2-Trichloroethane	0.000804 U	0.00200	0.000804	mg/kg wet
Tetrachloroethene (PCE)	0.000833 U	0.0100	0.000833	mg/kg wet
1,3-Dichloropropane	0.000802 U	0.00200	0.000802	mg/kg wet
Dibromochloromethane	0.000515 U	0.0100	0.000515	mg/kg wet
1,2-Dibromoethane (EDB)	0.000862 U	0.00200	0.000862	mg/kg wet
Chlorobenzene	0.000960 U	0.00200	0.000960	mg/kg wet
1,1,1,2-Tetrachloroethane	0.000812 U	0.00200	0.000812	mg/kg wet
Ethylbenzene	0.00154 U	0.00200	0.00154	mg/kg wet
m- & p-Xylenes	0.00425 U	0.00500	0.00425	mg/kg wet
o-Xylene	0.00187 U	0.00200	0.00187	mg/kg wet
Styrene	0.00156 U	0.00200	0.00156	mg/kg wet
Bromoform	0.00101 U	0.00200	0.00101	mg/kg wet
Isopropylbenzene (Cumene)	0.00191 U	0.00200	0.00191	mg/kg wet
Bromobenzene	0.00106 U	0.00200	0.00106	mg/kg wet
1,1,2,2-Tetrachloroethane	0.00100 U	0.00200	0.00100	mg/kg wet
1,2,3-Trichloropropane	0.00164 U	0.00200	0.00164	mg/kg wet
n-Propylbenzene	0.00182 U	0.00500	0.00182	mg/kg wet
2-Chlorotoluene	0.00158 U	0.00200	0.00158	mg/kg wet
4-Chlorotoluene	0.00166 U	0.00200	0.00166	mg/kg wet
1,3,5-Trimethylbenzene	0.00176 U	0.00200	0.00176	mg/kg wet
tert-Butyl Benzene	0.00185 U	0.00200	0.00185	mg/kg wet
1,2,4-Trimethylbenzene	0.00264 U	0.00500	0.00264	mg/kg wet
sec-Butyl Benzene	0.00181 U	0.00200	0.00181	mg/kg wet
1,3-Dichlorobenzene	0.00134 U	0.00200	0.00134	mg/kg wet
p-Isopropyltoluene	0.00163 U	0.00200	0.00163	mg/kg wet
1,4-Dichlorobenzene	0.00125 U	0.00200	0.00125	mg/kg wet
1,2-Dichlorobenzene	0.00140 U	0.00200	0.00140	mg/kg wet
n-Butyl Benzene	0.00211 U	0.00500	0.00211	mg/kg wet
1,2-Dibromo-3-Chloropropane	0.00109 U	0.00500	0.00109	mg/kg wet
1,2,4-Trichlorobenzene	0.00197 U	0.00200	0.00197	mg/kg wet
Naphthalene	0.00263 U	0.00400	0.00263	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401135 - Prep Method: 5035 (low)

Blank (B401135-BLK1)				Prepared: 21-Jan-14 12:35			Analyzed: 21-Jan-14 12:35				
Hexachlorobutadiene	0.00182 U	0.00300	0.00182	mg/kg wet							
1,2,3-Trichlorobenzene	0.000181 U	0.00200	0.000181	mg/kg wet							
Surrogate: Dibromofluoromethane	49.7			ug/kg	50.0		99	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.9			ug/kg	50.0		98	80-120			
Surrogate: Toluene-d8	49.1			ug/kg	50.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	51.1			ug/kg	50.0		102	68-120			
LCS (B401135-BS1)				Prepared: 21-Jan-14 13:04			Analyzed: 21-Jan-14 13:04				
Dichlorodifluoromethane	0.0361	0.00200	0.00164	mg/kg wet	0.0400		90	65-129			
Chloromethane	0.0335	0.00200	0.00147	mg/kg wet	0.0400		84	71-119			
Vinyl Chloride	0.0364	0.00200	0.00130	mg/kg wet	0.0400		91	74-121			
Bromomethane	0.0333	0.00500	0.00215	mg/kg wet	0.0400		83	39-142			
Chloroethane	0.0368	0.00200	0.000864	mg/kg wet	0.0400		92	69-121			
Trichlorofluoromethane	0.0365	0.00200	0.00125	mg/kg wet	0.0400		91	69-132			
1,1-Dichloroethene	0.0380	0.00200	0.00129	mg/kg wet	0.0400		95	69-128			
Acetone	0.0909	0.0500	0.00366	mg/kg wet	0.100		91	52-133			
Iodomethane (Methyl Iodide)	0.0198	0.0500	0.0113	mg/kg wet	0.0400		50	33-137			I
Carbon Disulfide	0.0364	0.0100	0.000666	mg/kg wet	0.0400		91	64-125			
Methylene Chloride	0.0353	0.0200	0.0147	mg/kg wet	0.0400		88	44-151			
trans-1,2-Dichloroethene	0.0387	0.00200	0.00126	mg/kg wet	0.0400		97	80-116			
Methyl tert-Butyl Ether (MTBE)	0.0403	0.00200	0.00126	mg/kg wet	0.0400		101	71-120			
1,1-Dichloroethane	0.0383	0.00200	0.00106	mg/kg wet	0.0400		96	80-114			
Vinyl Acetate	0.118	0.0100	0.00964	mg/kg wet	0.100		118	25-172			
2,2-Dichloropropane	0.0400	0.00200	0.00154	mg/kg wet	0.0400		100	49-139			
cis-1,2-Dichloroethene	0.0392	0.00200	0.00127	mg/kg wet	0.0400		98	80-117			
2-Butanone (MEK)	0.0932	0.0100	0.00479	mg/kg wet	0.100		93	61-129			
Bromochloromethane	0.0381	0.00200	0.000769	mg/kg wet	0.0400		95	79-119			
Chloroform	0.0376	0.00200	0.000651	mg/kg wet	0.0400		94	74-117			
1,1,1-Trichloroethane	0.0392	0.00200	0.00114	mg/kg wet	0.0400		98	77-121			
Carbon Tetrachloride	0.0385	0.00200	0.00145	mg/kg wet	0.0400		96	72-132			
1,1-Dichloropropene	0.0396	0.00200	0.00152	mg/kg wet	0.0400		99	82-117			
Benzene	0.0388	0.00200	0.00124	mg/kg wet	0.0400		97	81-116			
1,2-Dichloroethane	0.0378	0.00200	0.000863	mg/kg wet	0.0400		94	72-121			
Trichloroethene (TCE)	0.0390	0.00200	0.00128	mg/kg wet	0.0400		97	79-117			



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Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401135 - Prep Method: 5035 (low)

LCS (B401135-BS1)

Prepared: 21-Jan-14 13:04

Analyzed: 21-Jan-14 13:04

1,2-Dichloropropane	0.0385	0.00200	0.00109	mg/kg wet	0.0400		96	80-114			
Dibromomethane	0.0391	0.00200	0.000685	mg/kg wet	0.0400		98	77-117			
Bromodichloromethane	0.0383	0.00200	0.000547	mg/kg wet	0.0400		96	76-120			
2-Chloroethyl Vinyl Ether	0.108	0.0100	0.00356	mg/kg wet	0.100		108	56-139			
cis-1,3-Dichloropropene	0.0394	0.00200	0.00101	mg/kg wet	0.0400		98	77-122			
4-Methyl-2-Pentanone (MIBK)	0.107	0.0200	0.00486	mg/kg wet	0.100		107	66-135			
2-Hexanone	0.101	0.0200	0.00553	mg/kg wet	0.100		101	63-134			
Toluene	0.0384	0.00200	0.00121	mg/kg wet	0.0400		96	80-114			
trans-1,3-Dichloropropene	0.0390	0.00200	0.00101	mg/kg wet	0.0400		97	69-123			
1,1,2-Trichloroethane	0.0385	0.00200	0.000804	mg/kg wet	0.0400		96	79-113			
Tetrachloroethene (PCE)	0.0373	0.0100	0.000833	mg/kg wet	0.0400		93	57-144			
1,3-Dichloropropane	0.0382	0.00200	0.000802	mg/kg wet	0.0400		96	80-111			
Dibromochloromethane	0.0384	0.0100	0.000515	mg/kg wet	0.0400		96	72-126			
1,2-Dibromoethane (EDB)	0.0393	0.00200	0.000862	mg/kg wet	0.0400		98	78-118			
Chlorobenzene	0.0387	0.00200	0.000960	mg/kg wet	0.0400		97	80-113			
1,1,1,2-Tetrachloroethane	0.0386	0.00200	0.000812	mg/kg wet	0.0400		96	74-127			
Ethylbenzene	0.0398	0.00200	0.00154	mg/kg wet	0.0400		100	80-118			
m- & p-Xylenes	0.0804	0.00500	0.00425	mg/kg wet	0.0800		101	80-121			
o-Xylene	0.0411	0.00200	0.00187	mg/kg wet	0.0400		103	78-124			
Styrene	0.0403	0.00200	0.00156	mg/kg wet	0.0400		101	79-128			
Bromoform	0.0376	0.00200	0.00101	mg/kg wet	0.0400		94	64-127			
Isopropylbenzene (Cumene)	0.0412	0.00200	0.00191	mg/kg wet	0.0400		103	81-124			
Bromobenzene	0.0391	0.00200	0.00106	mg/kg wet	0.0400		98	80-116			
1,1,2,2-Tetrachloroethane	0.0375	0.00200	0.00100	mg/kg wet	0.0400		94	71-115			
1,2,3-Trichloropropane	0.0382	0.00200	0.00164	mg/kg wet	0.0400		96	68-119			
n-Propylbenzene	0.0400	0.00500	0.00182	mg/kg wet	0.0400		100	75-122			
2-Chlorotoluene	0.0394	0.00200	0.00158	mg/kg wet	0.0400		98	77-114			
4-Chlorotoluene	0.0398	0.00200	0.00166	mg/kg wet	0.0400		100	78-116			
1,3,5-Trimethylbenzene	0.0408	0.00200	0.00176	mg/kg wet	0.0400		102	77-123			
tert-Butyl Benzene	0.0414	0.00200	0.00185	mg/kg wet	0.0400		104	73-127			
1,2,4-Trimethylbenzene	0.0410	0.00500	0.00264	mg/kg wet	0.0400		102	76-122			
sec-Butyl Benzene	0.0412	0.00200	0.00181	mg/kg wet	0.0400		103	75-126			
1,3-Dichlorobenzene	0.0392	0.00200	0.00134	mg/kg wet	0.0400		98	78-114			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401135 - Prep Method: 5035 (low)

LCS (B401135-BS1)					Prepared: 21-Jan-14 13:04		Analyzed: 21-Jan-14 13:04				
p-Isopropyltoluene	0.0398	0.00200	0.00163	mg/kg wet	0.0400		100	76-122			
1,4-Dichlorobenzene	0.0382	0.00200	0.00125	mg/kg wet	0.0400		96	77-110			
1,2-Dichlorobenzene	0.0400	0.00200	0.00140	mg/kg wet	0.0400		100	79-113			
n-Butyl Benzene	0.0408	0.00500	0.00211	mg/kg wet	0.0400		102	77-125			
1,2-Dibromo-3-Chloropropane	0.0396	0.00500	0.00109	mg/kg wet	0.0400		99	50-132			
1,2,4-Trichlorobenzene	0.0406	0.00200	0.00197	mg/kg wet	0.0400		102	68-126			
Naphthalene	0.0410	0.00400	0.00263	mg/kg wet	0.0400		103	64-131			
Hexachlorobutadiene	0.0394	0.00300	0.00182	mg/kg wet	0.0400		99	66-125			
1,2,3-Trichlorobenzene	0.0393	0.00200	0.000181	mg/kg wet	0.0400		98	71-125			

Surrogate: Dibromofluoromethane	49.2			ug/kg	50.0		98	80-120			
Surrogate: 1,2-Dichloroethane-d4	47.9			ug/kg	50.0		96	80-120			
Surrogate: Toluene-d8	49.6			ug/kg	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/kg	50.0		101	68-120			

Matrix Spike (B401135-MS1)					Source: 1401055-01		Prepared: 21-Jan-14 17:24		Analyzed: 21-Jan-14 17:24		
Dichlorodifluoromethane	0.0381	0.00216	0.00178	mg/kg dry	0.0432	0.00178 U	88	57-135			
Chloromethane	0.0359	0.00216	0.00158	mg/kg dry	0.0432	0.00158 U	83	63-128			
Vinyl Chloride	0.0389	0.00216	0.00141	mg/kg dry	0.0432	0.00141 U	90	65-134			
Bromomethane	0.0364	0.00540	0.00232	mg/kg dry	0.0432	0.00232 U	84	11-147			
Chloroethane	0.0394	0.00216	0.000933	mg/kg dry	0.0432	0.000933 U	91	34-139			
Trichlorofluoromethane	0.0393	0.00216	0.00135	mg/kg dry	0.0432	0.00135 U	91	68-129			
1,1-Dichloroethene	0.0402	0.00216	0.00139	mg/kg dry	0.0432	0.00139 U	93	65-132			
Acetone	0.0881	0.0540	0.00396	mg/kg dry	0.108	0.00590	76	0-311			
Iodomethane (Methyl Iodide)	0.0246	0.0540	0.0122	mg/kg dry	0.0432	0.0122 U	57	35-139			I
Carbon Disulfide	0.0380	0.0108	0.000719	mg/kg dry	0.0432	0.000853	86	39-136			
Methylene Chloride	0.0433	0.0216	0.0159	mg/kg dry	0.0432	0.0159 U	100	38-160			
trans-1,2-Dichloroethene	0.0413	0.00216	0.00136	mg/kg dry	0.0432	0.00136 U	96	72-125			
Methyl tert-Butyl Ether (MTBE)	0.0429	0.00216	0.00136	mg/kg dry	0.0432	0.00136 U	99	68-123			
1,1-Dichloroethane	0.0405	0.00216	0.00114	mg/kg dry	0.0432	0.00114 U	94	74-121			
Vinyl Acetate	0.0104 U	0.0108	0.0104	mg/kg dry	0.108	0.0104 U		0-187			
2,2-Dichloropropane	0.0407	0.00216	0.00166	mg/kg dry	0.0432	0.00166 U	94	42-130			
cis-1,2-Dichloroethene	0.0415	0.00216	0.00137	mg/kg dry	0.0432	0.00137 U	96	76-121			
2-Butanone (MEK)	0.0927	0.0108	0.00517	mg/kg dry	0.108	0.00517 U	86	22-151			
Bromochloromethane	0.0414	0.00216	0.000831	mg/kg dry	0.0432	0.000831 U	96	75-121			



NELAP Certificate No. E84880



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Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401135 - Prep Method: 5035 (low)

Matrix Spike (B401135-MS1)	Source: 1401055-01				Prepared: 21-Jan-14 17:24			Analyzed: 21-Jan-14 17:24			
Chloroform	0.0402	0.00216	0.000703	mg/kg dry	0.0432	0.000703 U	93	73-117			
1,1,1-Trichloroethane	0.0411	0.00216	0.00123	mg/kg dry	0.0432	0.00123 U	95	72-123			
Carbon Tetrachloride	0.0403	0.00216	0.00157	mg/kg dry	0.0432	0.00157 U	93	62-131			
1,1-Dichloropropene	0.0418	0.00216	0.00164	mg/kg dry	0.0432	0.00164 U	97	69-130			
Benzene	0.0414	0.00216	0.00134	mg/kg dry	0.0432	0.00134 U	96	70-123			
1,2-Dichloroethane	0.0402	0.00216	0.000932	mg/kg dry	0.0432	0.000932 U	93	69-119			
Trichloroethene (TCE)	0.0414	0.00216	0.00139	mg/kg dry	0.0432	0.00139 U	96	64-133			
1,2-Dichloropropane	0.0413	0.00216	0.00117	mg/kg dry	0.0432	0.00117 U	96	71-122			
Dibromomethane	0.0411	0.00216	0.000740	mg/kg dry	0.0432	0.000740 U	95	68-121			
Bromodichloromethane	0.0404	0.00216	0.000591	mg/kg dry	0.0432	0.000591 U	94	67-122			
2-Chloroethyl Vinyl Ether	0.0958	0.0108	0.00385	mg/kg dry	0.108	0.00385 U	89	12-174			
cis-1,3-Dichloropropene	0.0406	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	94	56-130			
4-Methyl-2-Pentanone (MIBK)	0.106	0.0216	0.00525	mg/kg dry	0.108	0.00525 U	98	44-141			
2-Hexanone	0.0973	0.0216	0.00597	mg/kg dry	0.108	0.00597 U	90	32-140			
Toluene	0.0410	0.00216	0.00130	mg/kg dry	0.0432	0.00130 U	95	64-126			
trans-1,3-Dichloropropene	0.0395	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	92	53-125			
1,1,2-Trichloroethane	0.0414	0.00216	0.000869	mg/kg dry	0.0432	0.000869 U	96	72-117			
Tetrachloroethene (PCE)	0.0406	0.0108	0.000899	mg/kg dry	0.0432	0.000899 U	94	28-183			
1,3-Dichloropropane	0.0413	0.00216	0.000866	mg/kg dry	0.0432	0.000866 U	96	72-117			
Dibromochloromethane	0.0409	0.0108	0.000556	mg/kg dry	0.0432	0.000556 U	95	57-130			
1,2-Dibromoethane (EDB)	0.0416	0.00216	0.000931	mg/kg dry	0.0432	0.000931 U	96	67-123			
Chlorobenzene	0.0409	0.00216	0.00104	mg/kg dry	0.0432	0.00104 U	95	64-124			
1,1,1,2-Tetrachloroethane	0.0412	0.00216	0.000877	mg/kg dry	0.0432	0.000877 U	95	59-132			
Ethylbenzene	0.0420	0.00216	0.00167	mg/kg dry	0.0432	0.00167 U	97	52-136			
m- & p-Xylenes	0.0833	0.00540	0.00459	mg/kg dry	0.0864	0.00459 U	96	51-137			
o-Xylene	0.0417	0.00216	0.00202	mg/kg dry	0.0432	0.00202 U	97	52-138			
Styrene	0.0417	0.00216	0.00168	mg/kg dry	0.0432	0.00168 U	97	42-143			
Bromoform	0.0385	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	89	42-130			
Isopropylbenzene (Cumene)	0.0419	0.00216	0.00206	mg/kg dry	0.0432	0.00206 U	97	40-149			
Bromobenzene	0.0397	0.00216	0.00115	mg/kg dry	0.0432	0.00115 U	92	50-136			
1,1,2,2-Tetrachloroethane	0.0418	0.00216	0.00108	mg/kg dry	0.0432	0.00108 U	97	46-142			
1,2,3-Trichloropropane	0.0433	0.00216	0.00177	mg/kg dry	0.0432	0.00177 U	100	54-136			
n-Propylbenzene	0.0443	0.00540	0.00197	mg/kg dry	0.0432	0.00197 U	103	35-161			



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401135 - Prep Method: 5035 (low)

Matrix Spike (B401135-MS1)	Source: 1401055-01			Prepared: 21-Jan-14 17:24			Analyzed: 21-Jan-14 17:24				
2-Chlorotoluene	0.0440	0.00216	0.00170	mg/kg dry	0.0432	0.00170 U	102	57-137			
4-Chlorotoluene	0.0436	0.00216	0.00179	mg/kg dry	0.0432	0.00179 U	101	53-141			
1,3,5-Trimethylbenzene	0.0443	0.00216	0.00190	mg/kg dry	0.0432	0.00190 U	102	36-156			
tert-Butyl Benzene	0.0448	0.00216	0.00200	mg/kg dry	0.0432	0.00200 U	104	41-149			
1,2,4-Trimethylbenzene	0.0441	0.00540	0.00285	mg/kg dry	0.0432	0.00285 U	102	30-161			
sec-Butyl Benzene	0.0430	0.00216	0.00195	mg/kg dry	0.0432	0.00195 U	100	33-153			
1,3-Dichlorobenzene	0.0407	0.00216	0.00144	mg/kg dry	0.0432	0.00144 U	94	47-135			
p-Isopropyltoluene	0.0414	0.00216	0.00176	mg/kg dry	0.0432	0.00176 U	96	32-147			
1,4-Dichlorobenzene	0.0399	0.00216	0.00135	mg/kg dry	0.0432	0.00135 U	92	46-131			
1,2-Dichlorobenzene	0.0407	0.00216	0.00151	mg/kg dry	0.0432	0.00151 U	94	44-135			
n-Butyl Benzene	0.0394	0.00540	0.00228	mg/kg dry	0.0432	0.00228 U	91	10-165			
1,2-Dibromo-3-Chloropropane	0.0393	0.00540	0.00118	mg/kg dry	0.0432	0.00118 U	91	27-145			
1,2,4-Trichlorobenzene	0.0298	0.00216	0.00213	mg/kg dry	0.0432	0.00213 U	69	0-170			
Naphthalene	0.0331	0.00432	0.00284	mg/kg dry	0.0432	0.00284 U	77	0-157			
Hexachlorobutadiene	0.0318	0.00324	0.00196	mg/kg dry	0.0432	0.00196 U	74	0-173			
1,2,3-Trichlorobenzene	0.0270	0.00216	0.000196	mg/kg dry	0.0432	0.000196 U	63	0-169			

Surrogate: Dibromofluoromethane	49.6		ug/kg	50.0	99	80-120
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/kg	50.0	96	80-120
Surrogate: Toluene-d8	50.1		ug/kg	50.0	100	80-120
Surrogate: 4-Bromofluorobenzene	48.2		ug/kg	50.0	96	68-120

Matrix Spike Dup (B401135-MSD1)	Source: 1401055-01			Prepared: 21-Jan-14 17:53			Analyzed: 21-Jan-14 17:53				
Dichlorodifluoromethane	0.0375	0.00216	0.00178	mg/kg dry	0.0432	0.00178 U	87	57-135	2	23	
Chloromethane	0.0367	0.00216	0.00158	mg/kg dry	0.0432	0.00158 U	85	63-128	2	20	
Vinyl Chloride	0.0390	0.00216	0.00141	mg/kg dry	0.0432	0.00141 U	90	65-134	0.4	20	
Bromomethane	0.0353	0.00540	0.00232	mg/kg dry	0.0432	0.00232 U	82	11-147	3	20	
Chloroethane	0.0400	0.00216	0.000933	mg/kg dry	0.0432	0.000933 U	93	34-139	2	20	
Trichlorofluoromethane	0.0386	0.00216	0.00135	mg/kg dry	0.0432	0.00135 U	89	68-129	2	20	
1,1-Dichloroethene	0.0400	0.00216	0.00139	mg/kg dry	0.0432	0.00139 U	93	65-132	0.5	22	
Acetone	0.0867	0.0540	0.00396	mg/kg dry	0.108	0.00590	75	0-311	2	21	
Iodomethane (Methyl Iodide)	0.0373	0.0540	0.0122	mg/kg dry	0.0432	0.0122 U	86	35-139	41	30	I, J2
Carbon Disulfide	0.0376	0.0108	0.000719	mg/kg dry	0.0432	0.000853	85	39-136	1	20	
Methylene Chloride	0.0400	0.0216	0.0159	mg/kg dry	0.0432	0.0159 U	93	38-160	8	35	
trans-1,2-Dichloroethene	0.0411	0.00216	0.00136	mg/kg dry	0.0432	0.00136 U	95	72-125	0.5	20	



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Batch: B401135 - Prep Method: 5035 (low)

Matrix Spike Dup (B401135-MSD1)	Source: 1401055-01				Prepared: 21-Jan-14 17:53			Analyzed: 21-Jan-14 17:53			
Methyl tert-Butyl Ether (MTBE)	0.0418	0.00216	0.00136	mg/kg dry	0.0432	0.00136 U	97	68-123	2	20	
1,1-Dichloroethane	0.0409	0.00216	0.00114	mg/kg dry	0.0432	0.00114 U	95	74-121	1	20	
Vinyl Acetate	0.0104 U	0.0108	0.0104	mg/kg dry	0.108	0.0104 U		0-187		30	
2,2-Dichloropropane	0.0408	0.00216	0.00166	mg/kg dry	0.0432	0.00166 U	94	42-130	0.2	20	
cis-1,2-Dichloroethene	0.0418	0.00216	0.00137	mg/kg dry	0.0432	0.00137 U	97	76-121	0.8	20	
2-Butanone (MEK)	0.0917	0.0108	0.00517	mg/kg dry	0.108	0.00517 U	85	22-151	1	20	
Bromochloromethane	0.0422	0.00216	0.000831	mg/kg dry	0.0432	0.000831 U	98	75-121	2	20	
Chloroform	0.0403	0.00216	0.000703	mg/kg dry	0.0432	0.000703 U	93	73-117	0.4	20	
1,1,1-Trichloroethane	0.0412	0.00216	0.00123	mg/kg dry	0.0432	0.00123 U	95	72-123	0.3	20	
Carbon Tetrachloride	0.0406	0.00216	0.00157	mg/kg dry	0.0432	0.00157 U	94	62-131	1	20	
1,1-Dichloropropene	0.0411	0.00216	0.00164	mg/kg dry	0.0432	0.00164 U	95	69-130	2	20	
Benzene	0.0413	0.00216	0.00134	mg/kg dry	0.0432	0.00134 U	96	70-123	0.2	21	
1,2-Dichloroethane	0.0400	0.00216	0.000932	mg/kg dry	0.0432	0.000932 U	93	69-119	0.5	20	
Trichloroethene (TCE)	0.0405	0.00216	0.00139	mg/kg dry	0.0432	0.00139 U	94	64-133	2	24	
1,2-Dichloropropane	0.0413	0.00216	0.00117	mg/kg dry	0.0432	0.00117 U	96	71-122	0.05	20	
Dibromomethane	0.0411	0.00216	0.000740	mg/kg dry	0.0432	0.000740 U	95	68-121	0.2	23	
Bromodichloromethane	0.0412	0.00216	0.000591	mg/kg dry	0.0432	0.000591 U	95	67-122	2	20	
2-Chloroethyl Vinyl Ether	0.0938	0.0108	0.00385	mg/kg dry	0.108	0.00385 U	87	12-174	2	30	
cis-1,3-Dichloropropene	0.0404	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	93	56-130	0.5	20	
4-Methyl-2-Pentanone (MIBK)	0.102	0.0216	0.00525	mg/kg dry	0.108	0.00525 U	95	44-141	3	25	
2-Hexanone	0.0949	0.0216	0.00597	mg/kg dry	0.108	0.00597 U	88	32-140	3	21	
Toluene	0.0409	0.00216	0.00130	mg/kg dry	0.0432	0.00130 U	95	64-126	0.2	21	
trans-1,3-Dichloropropene	0.0394	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	91	53-125	0.3	20	
1,1,2-Trichloroethane	0.0412	0.00216	0.000869	mg/kg dry	0.0432	0.000869 U	95	72-117	0.4	20	
Tetrachloroethene (PCE)	0.0388	0.0108	0.000899	mg/kg dry	0.0432	0.000899 U	90	28-183	5	20	
1,3-Dichloropropane	0.0410	0.00216	0.000866	mg/kg dry	0.0432	0.000866 U	95	72-117	0.7	20	
Dibromochloromethane	0.0411	0.0108	0.000556	mg/kg dry	0.0432	0.000556 U	95	57-130	0.6	20	
1,2-Dibromoethane (EDB)	0.0403	0.00216	0.000931	mg/kg dry	0.0432	0.000931 U	93	67-123	3	20	
Chlorobenzene	0.0404	0.00216	0.00104	mg/kg dry	0.0432	0.00104 U	93	64-124	1	21	
1,1,1,2-Tetrachloroethane	0.0407	0.00216	0.000877	mg/kg dry	0.0432	0.000877 U	94	59-132	1	20	
Ethylbenzene	0.0408	0.00216	0.00167	mg/kg dry	0.0432	0.00167 U	94	52-136	3	20	
m- & p-Xylenes	0.0804	0.00540	0.00459	mg/kg dry	0.0864	0.00459 U	93	51-137	4	20	
o-Xylene	0.0411	0.00216	0.00202	mg/kg dry	0.0432	0.00202 U	95	52-138	2	20	



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Matrix Spike Dup (B401135-MSD1)	Source: 1401055-01			Prepared: 21-Jan-14 17:53			Analyzed: 21-Jan-14 17:53				
Styrene	0.0400	0.00216	0.00168	mg/kg dry	0.0432	0.00168 U	93	42-143	4	20	
Bromoform	0.0376	0.00216	0.00109	mg/kg dry	0.0432	0.00109 U	87	42-130	2	20	
Isopropylbenzene (Cumene)	0.0405	0.00216	0.00206	mg/kg dry	0.0432	0.00206 U	94	40-149	3	20	
Bromobenzene	0.0388	0.00216	0.00115	mg/kg dry	0.0432	0.00115 U	90	50-136	2	20	
1,1,2,2-Tetrachloroethane	0.0416	0.00216	0.00108	mg/kg dry	0.0432	0.00108 U	96	46-142	0.6	31	
1,2,3-Trichloropropane	0.0424	0.00216	0.00177	mg/kg dry	0.0432	0.00177 U	98	54-136	2	20	
n-Propylbenzene	0.0428	0.00540	0.00197	mg/kg dry	0.0432	0.00197 U	99	35-161	4	20	
2-Chlorotoluene	0.0428	0.00216	0.00170	mg/kg dry	0.0432	0.00170 U	99	57-137	3	20	
4-Chlorotoluene	0.0421	0.00216	0.00179	mg/kg dry	0.0432	0.00179 U	97	53-141	4	20	
1,3,5-Trimethylbenzene	0.0429	0.00216	0.00190	mg/kg dry	0.0432	0.00190 U	99	36-156	3	20	
tert-Butyl Benzene	0.0440	0.00216	0.00200	mg/kg dry	0.0432	0.00200 U	102	41-149	2	20	
1,2,4-Trimethylbenzene	0.0424	0.00540	0.00285	mg/kg dry	0.0432	0.00285 U	98	30-161	4	20	
sec-Butyl Benzene	0.0421	0.00216	0.00195	mg/kg dry	0.0432	0.00195 U	97	33-153	2	20	
1,3-Dichlorobenzene	0.0391	0.00216	0.00144	mg/kg dry	0.0432	0.00144 U	90	47-135	4	20	
p-Isopropyltoluene	0.0401	0.00216	0.00176	mg/kg dry	0.0432	0.00176 U	93	32-147	3	20	
1,4-Dichlorobenzene	0.0382	0.00216	0.00135	mg/kg dry	0.0432	0.00135 U	88	46-131	4	20	
1,2-Dichlorobenzene	0.0388	0.00216	0.00151	mg/kg dry	0.0432	0.00151 U	90	44-135	5	20	
n-Butyl Benzene	0.0378	0.00540	0.00228	mg/kg dry	0.0432	0.00228 U	88	10-165	4	20	
1,2-Dibromo-3-Chloropropane	0.0372	0.00540	0.00118	mg/kg dry	0.0432	0.00118 U	86	27-145	6	28	
1,2,4-Trichlorobenzene	0.0273	0.00216	0.00213	mg/kg dry	0.0432	0.00213 U	63	0-170	9	20	
Naphthalene	0.0304	0.00432	0.00284	mg/kg dry	0.0432	0.00284 U	70	0-157	9	20	
Hexachlorobutadiene	0.0297	0.00324	0.00196	mg/kg dry	0.0432	0.00196 U	69	0-173	7	20	
1,2,3-Trichlorobenzene	0.0246	0.00216	0.000196	mg/kg dry	0.0432	0.000196 U	57	0-169	9	20	
Surrogate: Dibromofluoromethane	50.1			ug/kg	50.0		100	80-120			
Surrogate: 1,2-Dichloroethane-d4	47.9			ug/kg	50.0		96	80-120			
Surrogate: Toluene-d8	50.3			ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	47.6			ug/kg	50.0		95	68-120			



NELAP Certificate No. E84880



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Suite 101
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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1) Prepared: 21-Jan-14 20:46 Analyzed: 21-Jan-14 20:46

1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L
2-Hexanone	4.00 U	20.0	4.00	ug/L
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L
Acetone	5.00 U	10.0	5.00	ug/L
Benzene	0.450 U	1.00	0.450	ug/L
Bromobenzene	0.410 U	2.00	0.410	ug/L
Bromochloromethane	0.500 U	5.00	0.500	ug/L
Bromodichloromethane	0.540 U	0.600	0.540	ug/L
Bromoform	0.650 U	2.00	0.650	ug/L



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limit	Qualifiers		

Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1) Prepared: 21-Jan-14 20:46 Analyzed: 21-Jan-14 20:46

Bromomethane	2.00 U	5.00	2.00	ug/L
Carbon Disulfide	0.800 U	2.00	0.800	ug/L
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L
Chlorobenzene	0.560 U	2.00	0.560	ug/L
Chloroethane	1.17 U	2.00	1.17	ug/L
Chloroform	1.00 U	2.00	1.00	ug/L
Chloromethane	0.560 U	2.00	0.560	ug/L
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L
Dibromochloromethane	0.710 U	2.00	0.710	ug/L
Dibromomethane	0.250 U	2.00	0.250	ug/L
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L
Ethylbenzene	0.500 U	2.00	0.500	ug/L
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L
Methylene Chloride	2.50 U	5.00	2.50	ug/L
Naphthalene	1.36 U	5.00	1.36	ug/L
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L
n-Propylbenzene	0.630 U	2.00	0.630	ug/L
o-Xylene	0.660 U	2.00	0.660	ug/L
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L
Styrene	0.640 U	2.00	0.640	ug/L
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L
Toluene	0.580 U	2.00	0.580	ug/L
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1)				Prepared: 21-Jan-14 20:46			Analyzed: 21-Jan-14 20:46				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	49.7			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	52.0			ug/L	50.0		104	80-120			
Surrogate: Dibromofluoromethane	50.8			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	49.4			ug/L	50.0		99	80-120			
LCS (B401136-BS1)				Prepared: 21-Jan-14 21:15			Analyzed: 21-Jan-14 21:15				
1,1,1,2-Tetrachloroethane	38.4	1.30	0.700	ug/L	40.0		96	72-124			
1,1,1-Trichloroethane	40.5	2.00	0.600	ug/L	40.0		101	76-122			
1,1,2,2-Tetrachloroethane	37.8	0.500	0.410	ug/L	40.0		94	71-112			
1,1,2-Trichloroethane	38.1	2.00	0.330	ug/L	40.0		95	79-110			
1,1-Dichloroethane	39.1	2.00	0.250	ug/L	40.0		98	80-112			
1,1-Dichloroethene	38.8	2.00	1.14	ug/L	40.0		97	74-122			
1,1-Dichloropropene	41.4	2.00	0.800	ug/L	40.0		104	83-116			
1,2,3-Trichlorobenzene	38.3	2.00	0.720	ug/L	40.0		96	76-116			
1,2,3-Trichloropropane	36.9	0.500	0.320	ug/L	40.0		92	71-115			
1,2,4-Trichlorobenzene	38.8	2.00	0.760	ug/L	40.0		97	73-118			
1,2,4-Trimethylbenzene	42.6	2.00	0.690	ug/L	40.0		107	80-119			
1,2-Dibromo-3-Chloropropane	35.4	2.00	1.05	ug/L	40.0		88	43-135			
1,2-Dibromoethane (EDB)	39.0	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	40.2	2.00	0.470	ug/L	40.0		100	80-110			
1,2-Dichloroethane	37.8	2.00	0.380	ug/L	40.0		94	73-116			
1,2-Dichloropropane	39.0	2.00	0.410	ug/L	40.0		98	78-113			
1,3,5-Trimethylbenzene	42.0	2.00	0.640	ug/L	40.0		105	80-118			
1,3-Dichlorobenzene	39.8	2.00	0.490	ug/L	40.0		100	80-110			
1,3-Dichloropropane	38.1	4.00	0.300	ug/L	40.0		95	80-109			
1,4-Dichlorobenzene	38.8	2.00	0.490	ug/L	40.0		97	78-107			
2,2-Dichloropropane	43.6	7.00	0.770	ug/L	40.0		109	51-138			
2-Butanone (MEK)	80.0	20.0	5.00	ug/L	100		80	57-129			
2-Chloroethyl Vinyl Ether	75.6	5.00	1.61	ug/L	100		76	45-145			
2-Chlorotoluene	41.1	2.00	0.450	ug/L	40.0		103	78-113			
2-Hexanone	93.7	20.0	4.00	ug/L	100		94	58-135			
4-Chlorotoluene	41.2	2.00	0.500	ug/L	40.0		103	79-115			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS (B401136-BS1)					Prepared: 21-Jan-14 21:15		Analyzed: 21-Jan-14 21:15				
4-Methyl-2-Pentanone (MIBK)	98.7	20.0	4.00	ug/L	100		99	65-135			
Acetone	95.6	10.0	5.00	ug/L	100		96	55-127			
Benzene	40.2	1.00	0.450	ug/L	40.0		101	82-113			
Bromobenzene	39.5	2.00	0.410	ug/L	40.0		99	80-114			
Bromochloromethane	37.7	5.00	0.500	ug/L	40.0		94	81-115			
Bromodichloromethane	39.5	0.600	0.540	ug/L	40.0		99	76-117			
Bromoform	37.9	2.00	0.650	ug/L	40.0		95	64-126			
Bromomethane	35.1	5.00	2.00	ug/L	40.0		88	40-138			
Carbon Disulfide	39.5	2.00	0.800	ug/L	40.0		99	78-116			
Carbon Tetrachloride	40.6	2.00	0.700	ug/L	40.0		102	74-129			
Chlorobenzene	39.6	2.00	0.560	ug/L	40.0		99	79-112			
Chloroethane	38.2	2.00	1.17	ug/L	40.0		96	70-116			
Chloroform	37.5	2.00	1.00	ug/L	40.0		94	72-115			
Chloromethane	34.2	2.00	0.560	ug/L	40.0		85	71-117			
cis-1,2-Dichloroethene	39.8	5.00	0.500	ug/L	40.0		99	83-112			
cis-1,3-Dichloropropene	40.0	0.500	0.260	ug/L	40.0		100	78-120			
Dibromochloromethane	39.1	2.00	0.710	ug/L	40.0		98	72-122			
Dibromomethane	38.1	2.00	0.250	ug/L	40.0		95	77-115			
Dichlorodifluoromethane	39.6	2.00	0.930	ug/L	40.0		99	63-129			
Ethylbenzene	41.3	2.00	0.500	ug/L	40.0		103	82-116			
Hexachlorobutadiene	35.4	3.00	2.00	ug/L	40.0		88	68-117			
Iodomethane (Methyl Iodide)	29.1	20.0	12.2	ug/L	40.0		73	30-127			
Isopropylbenzene (Cumene)	42.4	2.00	0.760	ug/L	40.0		106	80-122			
m- & p-Xylenes	83.6	4.00	1.23	ug/L	80.0		104	81-120			
Methyl tert-Butyl Ether (MTBE)	39.2	3.00	0.250	ug/L	40.0		98	71-115			
Methylene Chloride	34.8	5.00	2.50	ug/L	40.0		87	73-119			
Naphthalene	40.2	5.00	1.36	ug/L	40.0		100	67-117			
n-Butyl Benzene	41.1	2.00	1.10	ug/L	40.0		103	78-121			
n-Propylbenzene	42.0	2.00	0.630	ug/L	40.0		105	79-117			
o-Xylene	41.7	2.00	0.660	ug/L	40.0		104	80-119			
p-Isopropyltoluene	40.7	2.00	0.780	ug/L	40.0		102	78-117			
sec-Butyl Benzene	41.9	2.00	0.800	ug/L	40.0		105	79-119			
Styrene	41.4	2.00	0.640	ug/L	40.0		104	83-121			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS (B401136-BS1)						Prepared: 21-Jan-14 21:15	Analyzed: 21-Jan-14 21:15				
tert-Butyl Benzene	42.2	2.00	0.690	ug/L	40.0		105	76-119			
Tetrachloroethene (PCE)	38.0	2.00	1.50	ug/L	40.0		95	62-140			
Toluene	39.9	2.00	0.580	ug/L	40.0		100	80-112			
trans-1,2-Dichloroethene	39.8	2.00	0.500	ug/L	40.0		100	81-114			
trans-1,3-Dichloropropene	38.3	2.00	0.450	ug/L	40.0		96	70-119			
Trichloroethene (TCE)	40.5	2.00	0.740	ug/L	40.0		101	80-115			
Trichlorofluoromethane	39.5	2.00	1.10	ug/L	40.0		99	66-135			
Vinyl Acetate	103	2.00	1.63	ug/L	100		103	56-135			
Vinyl Chloride	39.1	1.00	0.970	ug/L	40.0		98	72-122			
Surrogate: 1,2-Dichloroethane-d4	48.2			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.2			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.7			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS Dup (B401136-BS1)						Prepared: 22-Jan-14 00:39	Analyzed: 22-Jan-14 00:39				
1,1,1,2-Tetrachloroethane	38.3	1.30	0.700	ug/L	40.0		96	72-124	0.4	20	
1,1,1-Trichloroethane	41.5	2.00	0.600	ug/L	40.0		104	76-122	2	20	
1,1,2,2-Tetrachloroethane	40.6	0.500	0.410	ug/L	40.0		101	71-112	7	20	
1,1,2-Trichloroethane	39.2	2.00	0.330	ug/L	40.0		98	79-110	3	20	
1,1-Dichloroethane	40.2	2.00	0.250	ug/L	40.0		101	80-112	3	20	
1,1-Dichloroethene	39.9	2.00	1.14	ug/L	40.0		100	74-122	3	20	
1,1-Dichloropropene	42.5	2.00	0.800	ug/L	40.0		106	83-116	3	20	
1,2,3-Trichlorobenzene	40.3	2.00	0.720	ug/L	40.0		101	76-116	5	20	
1,2,3-Trichloropropane	39.9	0.500	0.320	ug/L	40.0		100	71-115	8	20	
1,2,4-Trichlorobenzene	40.8	2.00	0.760	ug/L	40.0		102	73-118	5	20	
1,2,4-Trimethylbenzene	43.7	2.00	0.690	ug/L	40.0		109	80-119	2	20	
1,2-Dibromo-3-Chloropropane	38.2	2.00	1.05	ug/L	40.0		96	43-135	8	20	
1,2-Dibromoethane (EDB)	40.3	2.00	0.290	ug/L	40.0		101	77-116	3	20	
1,2-Dichlorobenzene	40.9	2.00	0.470	ug/L	40.0		102	80-110	2	20	
1,2-Dichloroethane	38.6	2.00	0.380	ug/L	40.0		96	73-116	2	20	
1,2-Dichloropropane	39.7	2.00	0.410	ug/L	40.0		99	78-113	2	20	
1,3,5-Trimethylbenzene	42.8	2.00	0.640	ug/L	40.0		107	80-118	2	20	
1,3-Dichlorobenzene	40.6	2.00	0.490	ug/L	40.0		102	80-110	2	20	
1,3-Dichloropropane	38.7	4.00	0.300	ug/L	40.0		97	80-109	2	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS Dup (B401136-BS01)					Prepared: 22-Jan-14 00:39		Analyzed: 22-Jan-14 00:39				
1,4-Dichlorobenzene	39.2	2.00	0.490	ug/L	40.0		98	78-107	0.9	20	
2,2-Dichloropropane	42.9	7.00	0.770	ug/L	40.0		107	51-138	2	20	
2-Butanone (MEK)	91.5	20.0	5.00	ug/L	100		92	57-129	13	20	
2-Chloroethyl Vinyl Ether	100	5.00	1.61	ug/L	100		100	45-145	28	30	
2-Chlorotoluene	41.4	2.00	0.450	ug/L	40.0		103	78-113	0.7	20	
2-Hexanone	103	20.0	4.00	ug/L	100		103	58-135	9	20	
4-Chlorotoluene	41.6	2.00	0.500	ug/L	40.0		104	79-115	0.9	20	
4-Methyl-2-Pentanone (MIBK)	110	20.0	4.00	ug/L	100		110	65-135	11	20	
Acetone	103	10.0	5.00	ug/L	100		103	55-127	8	20	
Benzene	41.1	1.00	0.450	ug/L	40.0		103	82-113	2	20	
Bromobenzene	39.7	2.00	0.410	ug/L	40.0		99	80-114	0.4	20	
Bromochloromethane	39.2	5.00	0.500	ug/L	40.0		98	81-115	4	20	
Bromodichloromethane	39.3	0.600	0.540	ug/L	40.0		98	76-117	0.5	20	
Bromoform	37.6	2.00	0.650	ug/L	40.0		94	64-126	0.7	20	
Bromomethane	14.4	5.00	2.00	ug/L	40.0		36	40-138	84	20	J2
Carbon Disulfide	40.8	2.00	0.800	ug/L	40.0		102	78-116	3	20	
Carbon Tetrachloride	41.1	2.00	0.700	ug/L	40.0		103	74-129	1	20	
Chlorobenzene	40.0	2.00	0.560	ug/L	40.0		100	79-112	1	20	
Chloroethane	38.3	2.00	1.17	ug/L	40.0		96	70-116	0.1	20	
Chloroform	38.2	2.00	1.00	ug/L	40.0		95	72-115	2	20	
Chloromethane	30.2	2.00	0.560	ug/L	40.0		75	71-117	12	20	
cis-1,2-Dichloroethene	40.0	5.00	0.500	ug/L	40.0		100	83-112	0.7	20	
cis-1,3-Dichloropropene	40.0	0.500	0.260	ug/L	40.0		100	78-120	0.03	20	
Dibromochloromethane	39.7	2.00	0.710	ug/L	40.0		99	72-122	2	20	
Dibromomethane	39.3	2.00	0.250	ug/L	40.0		98	77-115	3	20	
Dichlorodifluoromethane	39.8	2.00	0.930	ug/L	40.0		99	63-129	0.5	20	
Ethylbenzene	41.8	2.00	0.500	ug/L	40.0		105	82-116	1	20	
Hexachlorobutadiene	36.7	3.00	2.00	ug/L	40.0		92	68-117	4	20	
Iodomethane (Methyl Iodide)	17.3	20.0	12.2	ug/L	40.0		43	30-127	51	30	I, J2
Isopropylbenzene (Cumene)	43.0	2.00	0.760	ug/L	40.0		107	80-122	1	20	
m- & p-Xylenes	84.0	4.00	1.23	ug/L	80.0		105	81-120	0.4	20	
Methyl tert-Butyl Ether (MTBE)	41.5	3.00	0.250	ug/L	40.0		104	71-115	6	20	
Methylene Chloride	35.5	5.00	2.50	ug/L	40.0		89	73-119	2	20	



NELAP Certificate No. E84880



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS Dup (B401136-BS01)					Prepared: 22-Jan-14 00:39		Analyzed: 22-Jan-14 00:39				
Naphthalene	43.5	5.00	1.36	ug/L	40.0		109	67-117	8	20	
n-Butyl Benzene	42.2	2.00	1.10	ug/L	40.0		106	78-121	3	20	
n-Propylbenzene	42.8	2.00	0.630	ug/L	40.0		107	79-117	2	20	
o-Xylene	42.4	2.00	0.660	ug/L	40.0		106	80-119	2	20	
p-Isopropyltoluene	41.7	2.00	0.780	ug/L	40.0		104	78-117	2	20	
sec-Butyl Benzene	42.6	2.00	0.800	ug/L	40.0		107	79-119	2	20	
Styrene	42.0	2.00	0.640	ug/L	40.0		105	83-121	1	20	
tert-Butyl Benzene	43.4	2.00	0.690	ug/L	40.0		108	76-119	3	20	
Tetrachloroethene (PCE)	38.7	2.00	1.50	ug/L	40.0		97	62-140	2	20	
Toluene	40.5	2.00	0.580	ug/L	40.0		101	80-112	1	20	
trans-1,2-Dichloroethene	40.1	2.00	0.500	ug/L	40.0		100	81-114	0.8	20	
trans-1,3-Dichloropropene	38.1	2.00	0.450	ug/L	40.0		95	70-119	0.6	20	
Trichloroethene (TCE)	41.6	2.00	0.740	ug/L	40.0		104	80-115	3	20	
Trichlorofluoromethane	39.9	2.00	1.10	ug/L	40.0		100	66-135	1	20	
Vinyl Acetate	109	2.00	1.63	ug/L	100		109	56-135	5	20	
Vinyl Chloride	36.9	1.00	0.970	ug/L	40.0		92	72-122	6	20	
Surrogate: 1,2-Dichloroethane-d4	48.1			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	49.4			ug/L	50.0		99	80-120			
Surrogate: Dibromofluoromethane	49.7			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	49.4			ug/L	50.0		99	80-120			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec Limits	RPD RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)					Prepared: 20-Jan-14 13:11		Analyzed: 20-Jan-14 20:11		
1,2,4,5-Tetrachlorobenzene	0.0230 U	0.0500	0.0230	mg/kg wet					
1,2,4-Trichlorobenzene	0.0217 U	0.0500	0.0217	mg/kg wet					
1,2-Dichlorobenzene	0.0320 U	0.0500	0.0320	mg/kg wet					
1,3-Dichlorobenzene	0.0600 U	0.100	0.0600	mg/kg wet					
1,4-Dichlorobenzene	0.0521 U	0.100	0.0521	mg/kg wet					
1-Methylnaphthalene	0.0225 U	0.0500	0.0225	mg/kg wet					
2,4,5-Trichlorophenol	0.0556 U	0.100	0.0556	mg/kg wet					
1-Chloronaphthalene	0.0240 U	0.0500	0.0240	mg/kg wet					
2,4,6-Trichlorophenol	0.0736 U	0.100	0.0736	mg/kg wet					
1-Naphthylamine	0.0620 U	0.150	0.0620	mg/kg wet					
2,4-Dichlorophenol	0.0560 U	0.100	0.0560	mg/kg wet					
2,4-Dimethylphenol	0.0534 U	0.200	0.0534	mg/kg wet					
2,3,4,6-Tetrachlorophenol	0.0450 U	0.100	0.0450	mg/kg wet					
2,4-Dinitrophenol	0.104 U	0.200	0.104	mg/kg wet					
2,4-Dinitrotoluene	0.0122 U	0.0500	0.0122	mg/kg wet					
2,6-Dichlorophenol	0.0397 U	0.0500	0.0397	mg/kg wet					
2-Chloronaphthalene	0.0231 U	0.0500	0.0231	mg/kg wet					
2-Chlorophenol	0.0711 U	0.100	0.0711	mg/kg wet					
2,6-Dinitrotoluene	0.0130 U	0.0500	0.0130	mg/kg wet					
2-Methylnaphthalene	0.0313 U	0.0500	0.0313	mg/kg wet					
2-Methylphenol	0.0399 U	0.0500	0.0399	mg/kg wet					
2-Nitroaniline	0.0370 U	0.0500	0.0370	mg/kg wet					
2-Nitrophenol	0.0365 U	0.200	0.0365	mg/kg wet					
3,3-Dichlorobenzidine	0.166 U	0.200	0.166	mg/kg wet					
3/4-Methylphenol	0.0503 U	0.100	0.0503	mg/kg wet					
3-Nitroaniline	0.0334 U	0.100	0.0334	mg/kg wet					
4-Bromophenyl-Phenylether	0.0349 U	0.0500	0.0349	mg/kg wet					
2-Naphthylamine	0.0310 U	0.0500	0.0310	mg/kg wet					
4-Chloro-3-Methylphenol	0.0528 U	0.100	0.0528	mg/kg wet					
4-Chloroaniline	0.0340 U	0.100	0.0340	mg/kg wet					
4-Chlorophenyl-Phenylether	0.0218 U	0.0500	0.0218	mg/kg wet					
4-Nitroaniline	0.0235 U	0.100	0.0235	mg/kg wet					
4-Nitrophenol	0.117 U	0.200	0.117	mg/kg wet					



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)				Prepared: 20-Jan-14 13:11		Analyzed: 20-Jan-14 20:11					
Acenaphthene	0.0322 U	0.0500	0.0322	mg/kg wet							
4,6-Dinitro-2-Methylphenol	0.0870 U	0.200	0.0870	mg/kg wet							
Acenaphthylene	0.0107 U	0.0500	0.0107	mg/kg wet							
Anthracene	0.0159 U	0.0500	0.0159	mg/kg wet							
Benzo(a)anthracene	0.0156 U	0.0500	0.0156	mg/kg wet							
Benzo(a)pyrene	0.0148 U	0.0500	0.0148	mg/kg wet							
Benzo(b)fluoranthene	0.0186 U	0.0500	0.0186	mg/kg wet							
Benzo(g,h,i)perylene	0.0223 U	0.0500	0.0223	mg/kg wet							
4-Dimethylaminoazobenzene	0.0200 U	0.0500	0.0200	mg/kg wet							
Benzo(k)fluoranthene	0.0261 U	0.0500	0.0261	mg/kg wet							
Benzyl alcohol	0.0388 U	0.0500	0.0388	mg/kg wet							
bis(2-Chloroethoxy)methane	0.0241 U	0.0500	0.0241	mg/kg wet							
Bis(2-Chloroethyl)ether	0.0372 U	0.0500	0.0372	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.0520 U	0.100	0.0520	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	0.0149 U	0.0500	0.0149	mg/kg wet							
Aniline	0.0530 U	0.100	0.0530	mg/kg wet							
Butylbenzylphthalate	0.0248 U	0.0500	0.0248	mg/kg wet							
Carbazole	0.0257 U	0.0500	0.0257	mg/kg wet							
Chrysene	0.0197 U	0.0500	0.0197	mg/kg wet							
Azobenzene	0.0200 U	0.0500	0.0200	mg/kg wet							
Benidine	0.172 U	0.200	0.172	mg/kg wet							
Dibenzo(a,h)anthracene	0.0158 U	0.0500	0.0158	mg/kg wet							
Dibenzofuran	0.0256 U	0.0500	0.0256	mg/kg wet							
Diethylphthalate	0.0163 U	0.0500	0.0163	mg/kg wet							
Dimethylphthalate	0.0335 U	0.0500	0.0335	mg/kg wet							
Di-n-Butyl Phthalate	0.0205 U	0.0500	0.0205	mg/kg wet							
Di-n-Octyl Phthalate	0.0195 U	0.0500	0.0195	mg/kg wet							
Fluoranthene	0.0149 U	0.0500	0.0149	mg/kg wet							
Fluorene	0.0214 U	0.0500	0.0214	mg/kg wet							
Hexachlorobenzene	0.0387 U	0.0500	0.0387	mg/kg wet							
Hexachlorobutadiene	0.0387 U	0.0500	0.0387	mg/kg wet							
Hexachlorocyclopentadiene	0.0174 U	0.0500	0.0174	mg/kg wet							
Hexachloroethane	0.0250 U	0.0500	0.0250	mg/kg wet							



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)				Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 20:11				
Indeno(1,2,3-cd)pyrene	0.0239 U	0.0500	0.0239	mg/kg wet							
Isophorone	0.0224 U	0.0500	0.0224	mg/kg wet							
Naphthalene	0.0212 U	0.0500	0.0212	mg/kg wet							
Nitrobenzene	0.0393 U	0.0500	0.0393	mg/kg wet							
N-Nitrosodi-n-butylamine	0.0222 U	0.0500	0.0222	mg/kg wet							
N-Nitroso-di-n-propylamine	0.0430 U	0.0500	0.0430	mg/kg wet							
N-Nitrosodiphenylamine	0.0317 U	0.0500	0.0317	mg/kg wet							
Pentachlorophenol	0.0912 U	0.200	0.0912	mg/kg wet							
Phenanthrene	0.0119 U	0.0500	0.0119	mg/kg wet							
Phenol	0.0541 U	0.100	0.0541	mg/kg wet							
Pyrene	0.0201 U	0.0500	0.0201	mg/kg wet							
N-Nitrosodiethylamine	0.0460 U	0.0500	0.0460	mg/kg wet							
N-Nitrosodimethylamine	0.0480 U	0.0500	0.0480	mg/kg wet							
N-Nitrosomethylethylamine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosomorpholine	0.0370 U	0.0500	0.0370	mg/kg wet							
N-Nitrosopiperidine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosopyrrolidine	0.0270 U	0.0500	0.0270	mg/kg wet							
o-Toluidine	0.0340 U	0.100	0.0340	mg/kg wet							
Pyridine	0.0660 U	0.200	0.0660	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	1.24			mg/kg wet	1.67		75	45-107			
Surrogate: 2-Fluorobiphenyl	0.584			mg/kg wet	0.833		70	50-100			
Surrogate: 2-Fluorophenol	1.06			mg/kg wet	1.67		64	36-100			
Surrogate: Nitrobenzene-d5	0.589			mg/kg wet	0.833		71	25-130			
Surrogate: Phenol-d5	1.17			mg/kg wet	1.67		70	34-109			
Surrogate: Terphenyl-d14	0.708			mg/kg wet	0.833		85	55-105			
LCS (B401105-BS1)				Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 20:47				
1,2,4-Trichlorobenzene	2.28	0.0500	0.0217	mg/kg wet	3.33		69	33-100			
1,4-Dichlorobenzene	2.23	0.100	0.0521	mg/kg wet	3.33		67	34-100			
1-Methylnaphthalene	0.244	0.0500	0.0225	mg/kg wet	0.333		73	39-100			
2,4-Dinitrotoluene	2.47	0.0500	0.0122	mg/kg wet	3.33		74	38-112			
2-Chlorophenol	3.42	0.100	0.0711	mg/kg wet	5.00		68	27-100			
2-Methylnaphthalene	0.263	0.0500	0.0313	mg/kg wet	0.333		79	41-100			
4-Chloro-3-Methylphenol	3.85	0.100	0.0528	mg/kg wet	5.00		77	30-100			



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Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

LCS (B401105-BS1)					Prepared: 20-Jan-14 13:11		Analyzed: 20-Jan-14 20:47				
4-Nitrophenol	3.28	0.200	0.117	mg/kg wet	5.00		66	16-101			
Acenaphthene	2.65	0.0500	0.0322	mg/kg wet	3.67		72	28-100			
Acenaphthylene	0.281	0.0500	0.0107	mg/kg wet	0.333		84	41-100			
Anthracene	0.260	0.0500	0.0159	mg/kg wet	0.333		78	45-103			
Benzo(a)anthracene	0.256	0.0500	0.0156	mg/kg wet	0.333		77	51-101			
Benzo(a)pyrene	0.225	0.0500	0.0148	mg/kg wet	0.333		68	51-110			
Benzo(b)fluoranthene	0.213	0.0500	0.0186	mg/kg wet	0.333		64	41-106			
Benzo(g,h,i)perylene	0.222	0.0500	0.0223	mg/kg wet	0.333		67	45-106			
Benzo(k)fluoranthene	0.227	0.0500	0.0261	mg/kg wet	0.333		68	42-109			
Chrysene	0.277	0.0500	0.0197	mg/kg wet	0.333		83	53-110			
Dibenzo(a,h)anthracene	0.225	0.0500	0.0158	mg/kg wet	0.333		68	43-106			
Fluoranthene	0.251	0.0500	0.0149	mg/kg wet	0.333		75	43-104			
Fluorene	0.250	0.0500	0.0214	mg/kg wet	0.333		75	39-101			
Indeno(1,2,3-cd)pyrene	0.232	0.0500	0.0239	mg/kg wet	0.333		70	40-105			
Naphthalene	0.245	0.0500	0.0212	mg/kg wet	0.333		73	6-125			
N-Nitroso-di-n-propylamine	2.57	0.0500	0.0430	mg/kg wet	3.33		77	41-100			
Pentachlorophenol	2.93	0.200	0.0912	mg/kg wet	5.00		59	16-100			
Phenanthrene	0.260	0.0500	0.0119	mg/kg wet	0.333		78	44-103			
Phenol	3.38	0.100	0.0541	mg/kg wet	5.00		68	20-100			
Pyrene	2.92	0.0500	0.0201	mg/kg wet	3.67		80	48-114			
Surrogate: 2,4,6-Tribromophenol	1.19			mg/kg wet	1.67		72	45-107			
Surrogate: 2-Fluorobiphenyl	0.582			mg/kg wet	0.833		70	50-100			
Surrogate: 2-Fluorophenol	1.02			mg/kg wet	1.67		61	36-100			
Surrogate: Nitrobenzene-d5	0.586			mg/kg wet	0.833		70	25-130			
Surrogate: Phenol-d5	1.17			mg/kg wet	1.67		70	34-109			
Surrogate: Terphenyl-d14	0.670			mg/kg wet	0.833		80	55-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Matrix Spike (B401105-MS1)	Source: 1312115-01			Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 21:23				
1,2,4-Trichlorobenzene	2.97	0.0638	0.0277	mg/kg dry	4.26	0.0277 U	70	38-100			
1,4-Dichlorobenzene	2.96	0.128	0.0665	mg/kg dry	4.26	0.0665 U	70	40-100			
1-Methylnaphthalene	0.328	0.0638	0.0287	mg/kg dry	0.426	0.0287 U	77	39-100			
2,4-Dinitrotoluene	3.17	0.0638	0.0156	mg/kg dry	4.26	0.0156 U	75	33-116			
2-Chlorophenol	4.65	0.128	0.0907	mg/kg dry	6.38	0.0907 U	73	30-100			
2-Methylnaphthalene	0.349	0.0638	0.0400	mg/kg dry	0.426	0.0400 U	82	40-100			
4-Chloro-3-Methylphenol	5.05	0.128	0.0674	mg/kg dry	6.38	0.0674 U	79	31-103			
4-Nitrophenol	4.30	0.255	0.149	mg/kg dry	6.38	0.149 U	67	13-114			
Acenaphthene	3.49	0.0638	0.0411	mg/kg dry	4.68	0.0411 U	74	29-100			
Acenaphthylene	0.379	0.0638	0.0136	mg/kg dry	0.426	0.0136 U	89	41-100			
Anthracene	0.343	0.0638	0.0203	mg/kg dry	0.426	0.0203 U	81	47-100			
Benzo(a)anthracene	0.337	0.0638	0.0200	mg/kg dry	0.426	0.0200 U	79	36-105			
Benzo(a)pyrene	0.304	0.0638	0.0189	mg/kg dry	0.426	0.0189 U	71	38-123			
Benzo(b)fluoranthene	0.286	0.0638	0.0238	mg/kg dry	0.426	0.0238 U	67	32-114			
Benzo(g,h,i)perylene	0.295	0.0638	0.0285	mg/kg dry	0.426	0.0285 U	69	41-107			
Benzo(k)fluoranthene	0.309	0.0638	0.0333	mg/kg dry	0.426	0.0333 U	73	32-117			
Chrysene	0.364	0.0638	0.0252	mg/kg dry	0.426	0.0252 U	85	41-121			
Dibenzo(a,h)anthracene	0.303	0.0638	0.0202	mg/kg dry	0.426	0.0202 U	71	44-102			
Fluoranthene	0.333	0.0638	0.0190	mg/kg dry	0.426	0.0190 U	78	28-119			
Fluorene	0.344	0.0638	0.0273	mg/kg dry	0.426	0.0273 U	81	42-100			
Indeno(1,2,3-cd)pyrene	0.300	0.0638	0.0305	mg/kg dry	0.426	0.0305 U	70	25-142			
Naphthalene	0.338	0.0638	0.0270	mg/kg dry	0.426	0.0270 U	79	19-109			
N-Nitroso-di-n-propylamine	3.40	0.0638	0.0548	mg/kg dry	4.26	0.0548 U	80	39-101			
Pentachlorophenol	4.64	0.255	0.116	mg/kg dry	6.38	0.116 U	73	24-107			
Phenanthrene	0.354	0.0638	0.0152	mg/kg dry	0.426	0.0152 U	83	40-105			
Phenol	4.48	0.128	0.0691	mg/kg dry	6.38	0.0691 U	70	26-100			
Pyrene	3.75	0.0638	0.0256	mg/kg dry	4.68	0.0256 U	80	35-129			
Surrogate: 2,4,6-Tribromophenol	1.68			mg/kg dry	2.13		79	45-107			
Surrogate: 2-Fluorobiphenyl	0.779			mg/kg dry	1.06		73	50-100			
Surrogate: 2-Fluorophenol	1.45			mg/kg dry	2.13		68	36-100			
Surrogate: Nitrobenzene-d5	0.791			mg/kg dry	1.06		74	25-130			
Surrogate: Phenol-d5	1.67			mg/kg dry	2.13		78	34-109			
Surrogate: Terphenyl-d14	0.902			mg/kg dry	1.06		85	55-105			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Matrix Spike Dup (B401105-MSD1)	Source: 1312115-01			Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 21:58				
1,2,4-Trichlorobenzene	2.93	0.0638	0.0277	mg/kg dry	4.26	0.0277 U	69	38-100	1	25	
1,4-Dichlorobenzene	2.91	0.128	0.0665	mg/kg dry	4.26	0.0665 U	68	40-100	2	25	
1-Methylnaphthalene	0.308	0.0638	0.0287	mg/kg dry	0.426	0.0287 U	72	39-100	6	25	
2,4-Dinitrotoluene	3.16	0.0638	0.0156	mg/kg dry	4.26	0.0156 U	74	33-116	0.5	25	
2-Chlorophenol	4.51	0.128	0.0907	mg/kg dry	6.38	0.0907 U	71	30-100	3	25	
2-Methylnaphthalene	0.333	0.0638	0.0400	mg/kg dry	0.426	0.0400 U	78	40-100	5	25	
4-Chloro-3-Methylphenol	5.01	0.128	0.0674	mg/kg dry	6.38	0.0674 U	78	31-103	0.9	25	
4-Nitrophenol	4.45	0.255	0.149	mg/kg dry	6.38	0.149 U	70	13-114	4	25	
Acenaphthene	3.51	0.0638	0.0411	mg/kg dry	4.68	0.0411 U	75	29-100	0.6	25	
Acenaphthylene	0.351	0.0638	0.0136	mg/kg dry	0.426	0.0136 U	83	41-100	8	25	
Anthracene	0.320	0.0638	0.0203	mg/kg dry	0.426	0.0203 U	75	47-100	7	25	
Benzo(a)anthracene	0.312	0.0638	0.0200	mg/kg dry	0.426	0.0200 U	73	36-105	8	25	
Benzo(a)pyrene	0.293	0.0638	0.0189	mg/kg dry	0.426	0.0189 U	69	38-123	4	25	
Benzo(b)fluoranthene	0.270	0.0638	0.0238	mg/kg dry	0.426	0.0238 U	63	32-114	6	25	
Benzo(g,h,i)perylene	0.277	0.0638	0.0285	mg/kg dry	0.426	0.0285 U	65	41-107	6	25	
Benzo(k)fluoranthene	0.293	0.0638	0.0333	mg/kg dry	0.426	0.0333 U	69	32-117	5	25	
Chrysene	0.362	0.0638	0.0252	mg/kg dry	0.426	0.0252 U	85	41-121	0.5	25	
Dibenzo(a,h)anthracene	0.282	0.0638	0.0202	mg/kg dry	0.426	0.0202 U	66	44-102	7	25	
Fluoranthene	0.316	0.0638	0.0190	mg/kg dry	0.426	0.0190 U	74	28-119	5	25	
Fluorene	0.311	0.0638	0.0273	mg/kg dry	0.426	0.0273 U	73	42-100	10	25	
Indeno(1,2,3-cd)pyrene	0.284	0.0638	0.0305	mg/kg dry	0.426	0.0305 U	67	25-142	5	25	
Naphthalene	0.314	0.0638	0.0270	mg/kg dry	0.426	0.0270 U	74	19-109	7	25	
N-Nitroso-di-n-propylamine	3.38	0.0638	0.0548	mg/kg dry	4.26	0.0548 U	79	39-101	0.6	25	
Pentachlorophenol	4.78	0.255	0.116	mg/kg dry	6.38	0.116 U	75	24-107	3	25	
Phenanthrene	0.322	0.0638	0.0152	mg/kg dry	0.426	0.0152 U	76	40-105	10	25	
Phenol	4.41	0.128	0.0691	mg/kg dry	6.38	0.0691 U	69	26-100	2	25	
Pyrene	3.82	0.0638	0.0256	mg/kg dry	4.68	0.0256 U	82	35-129	2	25	
Surrogate: 2,4,6-Tribromophenol	1.61			mg/kg dry	2.13		76	45-107			
Surrogate: 2-Fluorobiphenyl	0.756			mg/kg dry	1.06		71	50-100			
Surrogate: 2-Fluorophenol	1.34			mg/kg dry	2.13		63	36-100			
Surrogate: Nitrobenzene-d5	0.733			mg/kg dry	1.06		69	25-130			
Surrogate: Phenol-d5	1.53			mg/kg dry	2.13		72	34-109			
Surrogate: Terphenyl-d14	0.870			mg/kg dry	1.06		82	55-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L							
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L							
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L							
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L							
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L							
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L							
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L							
1-Naphthylamine	5.03 U	10.0	5.03	ug/L							
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L							
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L							
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L							
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L							
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L							
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L							
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L							
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L							
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L							
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L							
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L							
2-Chlorophenol	1.47 U	5.00	1.47	ug/L							
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L							
2-Methylphenol	0.534 U	5.00	0.534	ug/L							
2-Naphthylamine	2.37 U	10.0	2.37	ug/L							
2-Nitroaniline	0.892 U	20.0	0.892	ug/L							
2-Nitrophenol	1.73 U	20.0	1.73	ug/L							
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L							
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L							
3-Nitroaniline	1.26 U	5.00	1.26	ug/L							
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L							
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L							
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L							
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L							
4-Chloroaniline	2.88 U	5.00	2.88	ug/L							



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Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L							
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L							
4-Nitroaniline	1.20 U	5.00	1.20	ug/L							
4-Nitrophenol	0.717 U	20.0	0.717	ug/L							
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L							
Acenaphthene	0.0640 U	1.00	0.0640	ug/L							
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L							
Aniline	3.70 U	4.00	3.70	ug/L							
Anthracene	0.0670 U	0.300	0.0670	ug/L							
Azobenzene	0.785 U	1.00	0.785	ug/L							
Benzidine	5.70 U	50.0	5.70	ug/L							
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L							
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L							
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L							
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L							
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L							
Benzyl alcohol	0.386 U	5.00	0.386	ug/L							
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L							
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L							
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L							
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L							
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L							
Carbazole	0.521 U	5.00	0.521	ug/L							
Chrysene	0.135 U	0.200	0.135	ug/L							
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L							
Dibenzofuran	0.716 U	5.00	0.716	ug/L							
Diethylphthalate	0.795 U	5.00	0.795	ug/L							
Dimethylphthalate	0.617 U	5.00	0.617	ug/L							
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L							
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L							
Fluoranthene	0.0910 U	0.300	0.0910	ug/L							
Fluorene	0.0660 U	1.00	0.0660	ug/L							
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L							



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limit	Limit	Limit	Qualifiers

Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L						
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L						
Hexachloroethane	1.53 U	5.00	1.53	ug/L						
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L						
Isophorone	1.00 U	5.00	1.00	ug/L						
Naphthalene	0.0640 U	1.00	0.0640	ug/L						
Nitrobenzene	0.746 U	3.50	0.746	ug/L						
o-Toluidine	3.32 U	5.00	3.32	ug/L						
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L						
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L						
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L						
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L						
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L						
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L						
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L						
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L						
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L						
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L						
Pentachlorophenol	1.72 U	20.0	1.72	ug/L						
Phenanthrene	0.0780 U	0.200	0.0780	ug/L						
Phenol	0.796 U	6.50	0.796	ug/L						
Pyrene	0.0930 U	0.300	0.0930	ug/L						
Pyridine	0.689 U	5.00	0.689	ug/L						
Surrogate: 2,4,6-Tribromophenol	30.9			ug/L	50.0		62	15-122		
Surrogate: 2-Fluorobiphenyl	15.6			ug/L	25.0		63	49-100		
Surrogate: 2-Fluorophenol	11.9			ug/L	50.0		24	1-100		
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106		
Surrogate: Phenol-d5	7.93			ug/L	50.0		16	2-100		
Surrogate: Terphenyl-d14	19.9			ug/L	25.0		80	56-108		



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

LCS (B401120-BS1)

Prepared: 21-Jan-14 10:42

Analyzed: 22-Jan-14 11:47

1,2,4-Trichlorobenzene	60.5	5.00	1.09	ug/L	100	60	20-109				
1,4-Dichlorobenzene	57.2	5.00	1.11	ug/L	100	57	19-101				
1-Methylnaphthalene	6.34	1.00	0.0530	ug/L	10.0	63	30-102				
2,4-Dinitrotoluene	61.2	5.00	0.915	ug/L	100	61	47-109				
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	47	19-100				
2-Methylnaphthalene	7.17	1.00	0.0610	ug/L	10.0	72	28-106				
4-Chloro-3-Methylphenol	83.7	5.00	1.58	ug/L	150	56	25-103				
4-Nitrophenol	16.3	20.0	0.717	ug/L	150	11	9-100				
Acenaphthene	71.8	1.00	0.0640	ug/L	110	65	30-100				
Acenaphthylene	7.22	1.00	0.0590	ug/L	10.0	72	32-103				
Anthracene	6.97	0.300	0.0670	ug/L	10.0	70	38-116				
Benzo(a)anthracene	6.98	0.200	0.105	ug/L	10.0	70	37-110				
Benzo(a)pyrene	6.39	0.100	0.0790	ug/L	10.0	64	44-119				
Benzo(b)fluoranthene	5.58	0.100	0.0820	ug/L	10.0	56	34-115				
Benzo(g,h,i)perylene	5.79	0.200	0.0610	ug/L	10.0	58	43-117				
Benzo(k)fluoranthene	7.00	0.100	0.0770	ug/L	10.0	70	43-118				
Chrysene	8.05	0.200	0.135	ug/L	10.0	80	44-125				
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	61	40-116				
Fluoranthene	6.79	0.300	0.0910	ug/L	10.0	68	39-114				
Fluorene	6.68	1.00	0.0660	ug/L	10.0	67	39-104				
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	60	50-103				
Naphthalene	6.80	1.00	0.0640	ug/L	10.0	68	9-135				
N-Nitroso-di-n-propylamine	66.6	5.00	0.964	ug/L	100	67	24-117				
Pentachlorophenol	89.8	20.0	1.72	ug/L	150	60	39-103				
Phenanthrene	7.09	0.200	0.0780	ug/L	10.0	71	42-113				
Phenol	21.1	6.50	0.796	ug/L	150	14	4-100				
Pyrene	81.0	0.300	0.0930	ug/L	110	74	38-133				
Surrogate: 2,4,6-Tribromophenol	29.5			ug/L	50.0	59	15-122				
Surrogate: 2-Fluorobiphenyl	15.1			ug/L	25.0	60	49-100				
Surrogate: 2-Fluorophenol	10.6			ug/L	50.0	21	1-100				
Surrogate: Nitrobenzene-d5	13.8			ug/L	25.0	55	47-106				
Surrogate: Phenol-d5	6.64			ug/L	50.0	13	2-100				
Surrogate: Terphenyl-d14	18.2			ug/L	25.0	73	56-108				



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike (B401120-MS1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:22				
1,2,4-Trichlorobenzene	63.8	5.00	1.09	ug/L	100	1.09 U	64	46-92			
1,4-Dichlorobenzene	61.7	5.00	1.11	ug/L	100	1.11 U	62	37-100			
1-Methylnaphthalene	6.89	1.00	0.0530	ug/L	10.0	0.0530 U	69	54-100			
2,4-Dinitrotoluene	63.7	5.00	0.915	ug/L	100	0.915 U	64	66-100			J2
2-Chlorophenol	71.5	5.00	1.47	ug/L	150	1.47 U	48	33-100			
2-Methylnaphthalene	7.35	1.00	0.0610	ug/L	10.0	0.0610 U	74	51-100			
4-Chloro-3-Methylphenol	88.1	5.00	1.58	ug/L	150	1.58 U	59	51-100			
4-Nitrophenol	7.41	20.0	0.717	ug/L	150	0.717 U	5	13-100			I, J2
Acenaphthene	75.6	1.00	0.0640	ug/L	110	0.0640 U	69	62-100			
Acenaphthylene	7.82	1.00	0.0590	ug/L	10.0	0.0590 U	78	57-100			
Anthracene	7.29	0.300	0.0670	ug/L	10.0	0.0670 U	73	64-100			
Benzo(a)anthracene	7.09	0.200	0.105	ug/L	10.0	0.105 U	71	65-100			
Benzo(a)pyrene	6.34	0.100	0.0790	ug/L	10.0	0.0790 U	63	72-100			J2
Benzo(b)fluoranthene	5.96	0.100	0.0820	ug/L	10.0	0.0820 U	60	63-100			J2
Benzo(g,h,i)perylene	6.14	0.200	0.0610	ug/L	10.0	0.0610 U	61	64-102			J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113			
Chrysene	8.13	0.200	0.135	ug/L	10.0	0.135 U	81	67-100			
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	0.0680 U	61	64-100			J2
Fluoranthene	6.94	0.300	0.0910	ug/L	10.0	0.0910 U	69	68-100			
Fluorene	7.16	1.00	0.0660	ug/L	10.0	0.0660 U	72	62-100			
Indeno(1,2,3-cd)pyrene	5.88	0.200	0.0130	ug/L	10.0	0.0130 U	59	52-100			
Naphthalene	7.25	1.00	0.0640	ug/L	10.0	0.0640 U	72	24-100			
N-Nitroso-di-n-propylamine	68.1	5.00	0.964	ug/L	100	0.964 U	68	50-100			
Pentachlorophenol	57.0	20.0	1.72	ug/L	150	1.72 U	38	64-100			J2
Phenanthrene	7.44	0.200	0.0780	ug/L	10.0	0.0780 U	74	68-100			
Phenol	24.9	6.50	0.796	ug/L	150	0.796 U	17	7-100			
Pyrene	83.3	0.300	0.0930	ug/L	110	0.0930 U	76	68-100			
Surrogate: 2,4,6-Tribromophenol	28.1			ug/L	50.0		56	15-122			
Surrogate: 2-Fluorobiphenyl	17.1			ug/L	25.0		69	49-100			
Surrogate: 2-Fluorophenol	11.7			ug/L	50.0		23	1-100			
Surrogate: Nitrobenzene-d5	15.4			ug/L	25.0		62	47-106			
Surrogate: Phenol-d5	8.09			ug/L	50.0		16	2-100			
Surrogate: Terphenyl-d14	19.5			ug/L	25.0		78	56-108			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike Dup (B401120-MSD1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:58				
1,2,4-Trichlorobenzene	63.3	5.00	1.09	ug/L	100	1.09 U	63	46-92	0.8	25	
1,4-Dichlorobenzene	61.8	5.00	1.11	ug/L	100	1.11 U	62	37-100	0.2	25	
1-Methylnaphthalene	6.52	1.00	0.0530	ug/L	10.0	0.0530 U	65	54-100	6	25	
2,4-Dinitrotoluene	63.4	5.00	0.915	ug/L	100	0.915 U	63	66-100	0.4	25	J2
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	1.47 U	47	33-100	1	25	
2-Methylnaphthalene	6.94	1.00	0.0610	ug/L	10.0	0.0610 U	69	51-100	6	25	
4-Chloro-3-Methylphenol	85.8	5.00	1.58	ug/L	150	1.58 U	57	51-100	3	25	
4-Nitrophenol	8.00	20.0	0.717	ug/L	150	0.717 U	5	13-100	8	25	I, J2
Acenaphthene	75.4	1.00	0.0640	ug/L	110	0.0640 U	68	62-100	0.3	25	
Acenaphthylene	7.29	1.00	0.0590	ug/L	10.0	0.0590 U	73	57-100	7	25	
Anthracene	6.86	0.300	0.0670	ug/L	10.0	0.0670 U	69	64-100	6	25	
Benzo(a)anthracene	7.00	0.200	0.105	ug/L	10.0	0.105 U	70	65-100	1	25	
Benzo(a)pyrene	5.99	0.100	0.0790	ug/L	10.0	0.0790 U	60	72-100	6	25	J2
Benzo(b)fluoranthene	5.79	0.100	0.0820	ug/L	10.0	0.0820 U	58	63-100	3	25	J2
Benzo(g,h,i)perylene	6.03	0.200	0.0610	ug/L	10.0	0.0610 U	60	64-102	2	25	J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113	0	25	
Chrysene	7.71	0.200	0.135	ug/L	10.0	0.135 U	77	67-100	5	25	
Dibenzo(a,h)anthracene	5.94	0.200	0.0680	ug/L	10.0	0.0680 U	59	64-100	2	25	J2
Fluoranthene	6.77	0.300	0.0910	ug/L	10.0	0.0910 U	68	68-100	2	25	
Fluorene	6.53	1.00	0.0660	ug/L	10.0	0.0660 U	65	62-100	9	25	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	0.0130 U	60	52-100	2	25	
Naphthalene	6.73	1.00	0.0640	ug/L	10.0	0.0640 U	67	24-100	7	25	
N-Nitroso-di-n-propylamine	68.6	5.00	0.964	ug/L	100	0.964 U	69	50-100	0.8	25	
Pentachlorophenol	60.2	20.0	1.72	ug/L	150	1.72 U	40	64-100	6	25	J2
Phenanthrene	7.33	0.200	0.0780	ug/L	10.0	0.0780 U	73	68-100	1	25	
Phenol	24.8	6.50	0.796	ug/L	150	0.796 U	17	7-100	0.6	25	
Pyrene	80.9	0.300	0.0930	ug/L	110	0.0930 U	74	68-100	3	25	
Surrogate: 2,4,6-Tribromophenol	28.5			ug/L	50.0		57	15-122			
Surrogate: 2-Fluorobiphenyl	15.8			ug/L	25.0		63	49-100			
Surrogate: 2-Fluorophenol	11.2			ug/L	50.0		22	1-100			
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106			
Surrogate: Phenol-d5	7.66			ug/L	50.0		15	2-100			
Surrogate: Terphenyl-d14	18.9			ug/L	25.0		75	56-108			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Blank (B401117-BLK1)					Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 09:51				
alpha-BHC	0.000690 U	0.00100	0.000690	mg/kg wet							
beta-BHC	0.000650 U	0.00100	0.000650	mg/kg wet							
gamma-BHC	0.000880 U	0.00100	0.000880	mg/kg wet							
delta-BHC	0.000660 U	0.00100	0.000660	mg/kg wet							
Heptachlor	0.000760 U	0.00100	0.000760	mg/kg wet							
Aldrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Heptachlor Epoxide	0.000580 U	0.00100	0.000580	mg/kg wet							
gamma-Chlordane	0.000510 U	0.00100	0.000510	mg/kg wet							
Endosulfan I	0.000510 U	0.00100	0.000510	mg/kg wet							
alpha-Chlordane	0.000490 U	0.00100	0.000490	mg/kg wet							
Dieldrin	0.000530 U	0.00100	0.000530	mg/kg wet							
4,4-DDE	0.000650 U	0.00100	0.000650	mg/kg wet							
Endrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Endosulfan II	0.000510 U	0.00100	0.000510	mg/kg wet							
4,4-DDD	0.000660 U	0.00100	0.000660	mg/kg wet							
Endrin Aldehyde	0.000610 U	0.00100	0.000610	mg/kg wet							
Endosulfan Sulfate	0.000580 U	0.00100	0.000580	mg/kg wet							
4,4-DDT	0.000580 U	0.00100	0.000580	mg/kg wet							
Endrin Ketone	0.000680 U	0.00100	0.000680	mg/kg wet							
Methoxychlor	0.000830 U	0.00100	0.000830	mg/kg wet							
Chlordane	0.00540 U	0.0500	0.00540	mg/kg wet							
Toxaphene	0.0180 U	0.0500	0.0180	mg/kg wet							

Surrogate: TCMX	0.00674			mg/kg wet	0.00833		81	47-122
Surrogate: Decachlorobiphenyl	0.00981			mg/kg wet	0.00833		118	23-150

LCS (B401117-BS1)				Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 10:24	
alpha-BHC	0.0173	0.00100	0.000690	mg/kg wet	0.0167	104	30-115
beta-BHC	0.0165	0.00100	0.000650	mg/kg wet	0.0167	99	39-141
gamma-BHC	0.0174	0.00100	0.000880	mg/kg wet	0.0167	104	52-109
delta-BHC	0.0200	0.00100	0.000660	mg/kg wet	0.0167	120	47-123
Heptachlor	0.0164	0.00100	0.000760	mg/kg wet	0.0167	98	45-121
Aldrin	0.0163	0.00100	0.000550	mg/kg wet	0.0167	98	37-114
Heptachlor Epoxide	0.0160	0.00100	0.000580	mg/kg wet	0.0167	96	44-122
gamma-Chlordane	0.0157	0.00100	0.000510	mg/kg wet	0.0167	94	41-122



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

LCS (B401117-BS1)

Prepared: 22-Jan-14 07:30

Analyzed: 22-Jan-14 10:24

Endosulfan I	0.0163	0.00100	0.000510	mg/kg wet	0.0167		98	43-123		
alpha-Chlordane	0.0155	0.00100	0.000490	mg/kg wet	0.0167		93	40-122		
Dieldrin	0.0185	0.00100	0.000530	mg/kg wet	0.0167		111	45-127		
4,4-DDE	0.0205	0.00100	0.000650	mg/kg wet	0.0167		123	46-123		
Endrin	0.0190	0.00100	0.000550	mg/kg wet	0.0167		114	34-154		
Endosulfan II	0.0166	0.00100	0.000510	mg/kg wet	0.0167		100	41-150		
4,4-DDD	0.0202	0.00100	0.000660	mg/kg wet	0.0167		121	48-141		
Endrin Aldehyde	0.0192	0.00100	0.000610	mg/kg wet	0.0167		115	39-143		
Endosulfan Sulfate	0.0202	0.00100	0.000580	mg/kg wet	0.0167		121	46-147		
4,4-DDT	0.0142	0.00100	0.000580	mg/kg wet	0.0167		85	44-154		
Endrin Ketone	0.0194	0.00100	0.000680	mg/kg wet	0.0167		116	50-154		
Methoxychlor	0.0271	0.00100	0.000830	mg/kg wet	0.0167		163	44-171		

Surrogate: TCMX	0.00596			mg/kg wet	0.00833		72	47-122		
Surrogate: Decachlorobiphenyl	0.00911			mg/kg wet	0.00833		109	23-150		

Matrix Spike (B401117-MS1)

Source: 1312116-02

Prepared: 22-Jan-14 07:30

Analyzed: 22-Jan-14 10:58

alpha-BHC	0.0231	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	116	47-126		
beta-BHC	0.0221	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	111	56-149		
gamma-BHC	0.0238	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	119	56-131		
delta-BHC	0.0261	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	131	55-139		
Heptachlor	0.0216	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	108	57-136		
Aldrin	0.0220	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	111	55-116		
Heptachlor Epoxide	0.0215	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	108	56-132		
gamma-Chlordane	0.0207	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	104	53-128		
Endosulfan I	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	54-128		
alpha-Chlordane	0.0213	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	107	56-123		
Dieldrin	0.0247	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	124	56-134		
4,4-DDE	0.0245	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	123	48-131		
Endrin	0.0245	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	123	30-202		
Endosulfan II	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	50-156		
4,4-DDD	0.0238	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	120	56-151		
Endrin Aldehyde	0.0259	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	130	58-134		
Endosulfan Sulfate	0.0273	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	137	37-177		
4,4-DDT	0.0183	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	92	5-212		



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Matrix Spike (B401117-MS1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 10:58			
Endrin Ketone	0.0258	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	130	55-166			
Methoxychlor	0.0364	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	183	49-191			
Surrogate: TCMX	0.00705			mg/kg dry	0.00996		71	47-122			
Surrogate: Decachlorobiphenyl	0.0118			mg/kg dry	0.00996		118	23-150			
Matrix Spike Dup (B401117-MSD1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 11:32			
alpha-BHC	0.0250	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	126	47-126	8	25	
beta-BHC	0.0239	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	120	56-149	8	25	
gamma-BHC	0.0250	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	125	56-131	5	25	
delta-BHC	0.0183	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	92	55-139	35	25	J2
Heptachlor	0.0240	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	121	57-136	11	25	
Aldrin	0.0232	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	117	55-116	5	25	J2
Heptachlor Epoxide	0.0236	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	119	56-132	9	25	
gamma-Chlordane	0.0227	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	114	53-128	9	25	
Endosulfan I	0.0240	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	121	54-128	8	25	
alpha-Chlordane	0.0231	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	116	56-123	8	25	
Dieldrin	0.0270	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	136	56-134	9	25	J2
4,4-DDE	0.0261	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	131	48-131	6	25	
Endrin	0.0270	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	135	30-202	9	25	
Endosulfan II	0.0238	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	120	50-156	7	25	
4,4-DDD	0.0274	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	137	56-151	14	25	
Endrin Aldehyde	0.0239	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	120	58-134	8	25	
Endosulfan Sulfate	0.0283	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	142	37-177	4	25	
4,4-DDT	0.0192	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	96	5-212	5	25	
Endrin Ketone	0.0269	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	135	55-166	4	25	
Methoxychlor	0.0379	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	190	49-191	4	25	
Surrogate: TCMX	0.00768			mg/kg dry	0.00996		77	47-122			
Surrogate: Decachlorobiphenyl	0.0112			mg/kg dry	0.00996		112	23-150			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Blank (B401118-BLK1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 22:40			
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L						
beta-BHC	0.00200 U	0.0500	0.00200	ug/L						
gamma-BHC	0.00400 U	0.100	0.00400	ug/L						
delta-BHC	0.00300 U	0.0500	0.00300	ug/L						
Heptachlor	0.00300 U	0.0500	0.00300	ug/L						
Aldrin	0.00200 U	0.0500	0.00200	ug/L						
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L						
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L						
Endosulfan I	0.00200 U	0.100	0.00200	ug/L						
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L						
Dieldrin	0.00200 U	0.100	0.00200	ug/L						
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L						
Endrin	0.00200 U	0.200	0.00200	ug/L						
Endosulfan II	0.00300 U	0.100	0.00300	ug/L						
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L						
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L						
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L						
4,4-DDT	0.00400 U	0.200	0.00400	ug/L						
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L						
Methoxychlor	0.00400 U	0.200	0.00400	ug/L						
Chlordane	0.150 U	1.00	0.150	ug/L						
Toxaphene	0.520 U	1.00	0.520	ug/L						

Surrogate: TCMX 0.0190 ug/L 0.0250 76 51-116

Surrogate: Decachlorobiphenyl 0.0240 ug/L 0.0250 96 67-116

LCS (B401118-BS1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:14			
alpha-BHC	0.0420	0.0500	0.00200	ug/L	0.0500		84	52-128		I
beta-BHC	0.0520	0.0500	0.00200	ug/L	0.0500		104	56-127		
gamma-BHC	0.0500	0.100	0.00400	ug/L	0.0500		100	45-140		I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500		90	46-142		I
Heptachlor	0.0520	0.0500	0.00300	ug/L	0.0500		104	48-147		
Aldrin	0.0430	0.0500	0.00200	ug/L	0.0500		86	50-121		I
Heptachlor Epoxide	0.0490	0.0800	0.00200	ug/L	0.0500		98	45-133		I
gamma-Chlordane	0.0470	0.800	0.00300	ug/L	0.0500		94	53-117		I



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

LCS (B401118-BS1)

Prepared: 21-Jan-14 10:39

Analyzed: 21-Jan-14 23:14

Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500		92	54-129			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500		88	51-117			I
Dieldrin	0.0480	0.100	0.00200	ug/L	0.0500		96	48-137			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500		96	48-127			I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500		96	54-140			I
Endosulfan II	0.0460	0.100	0.00300	ug/L	0.0500		92	45-138			I
4,4-DDD	0.0490	0.0800	0.00300	ug/L	0.0500		98	39-156			I
Endrin Aldehyde	0.0510	0.200	0.00300	ug/L	0.0500		102	47-141			I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500		96	49-141			I
4,4-DDT	0.0560	0.200	0.00400	ug/L	0.0500		112	38-162			I
Endrin Ketone	0.0490	0.200	0.00200	ug/L	0.0500		98	44-159			I
Methoxychlor	0.0620	0.200	0.00400	ug/L	0.0500		124	45-164			I

Surrogate: TCMX

0.0180

ug/L

0.0250

72

51-116

Surrogate: Decachlorobiphenyl

0.0230

ug/L

0.0250

92

67-116

Matrix Spike (B401118-MS1)

Source: 1312115-02

Prepared: 21-Jan-14 10:39

Analyzed: 21-Jan-14 23:47

alpha-BHC	0.0440	0.0500	0.00200	ug/L	0.0500	0.00200 U	88	51-108			I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117			I
gamma-BHC	0.0490	0.100	0.00400	ug/L	0.0500	0.00400 U	98	53-119			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500	0.00300 U	90	51-126			I
Heptachlor	0.0490	0.0500	0.00300	ug/L	0.0500	0.00300 U	98	41-126			I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111			I
Heptachlor Epoxide	0.0470	0.0800	0.00200	ug/L	0.0500	0.00200 U	94	56-116			I
gamma-Chlordane	0.0460	0.800	0.00300	ug/L	0.0500	0.00300 U	92	57-116			I
Endosulfan I	0.0440	0.100	0.00200	ug/L	0.0500	0.00200 U	88	58-113			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118			I
Dieldrin	0.0450	0.100	0.00200	ug/L	0.0500	0.00200 U	90	59-120			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	58-121			I
Endrin	0.0460	0.200	0.00200	ug/L	0.0500	0.00200 U	92	57-125			I
Endosulfan II	0.0470	0.100	0.00300	ug/L	0.0500	0.00300 U	94	59-121			I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123			I
Endrin Aldehyde	0.0500	0.200	0.00300	ug/L	0.0500	0.00300 U	100	56-120			I
Endosulfan Sulfate	0.0490	0.100	0.00300	ug/L	0.0500	0.00300 U	98	53-133			I
4,4-DDT	0.0570	0.200	0.00400	ug/L	0.0500	0.00400 U	114	47-132			I



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Matrix Spike (B401118-MS1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:47				
Endrin Ketone	0.0450	0.200	0.00200	ug/L	0.0500	0.00200 U	90	50-140			I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137			I
Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0270			ug/L	0.0250		108	67-116			
Matrix Spike Dup (B401118-MSD1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 22-Jan-14 00:21				
alpha-BHC	0.0430	0.0500	0.00200	ug/L	0.0500	0.00200 U	86	51-108	2	25	I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117	0	25	I
gamma-BHC	0.0510	0.100	0.00400	ug/L	0.0500	0.00400 U	102	53-119	4	25	I
delta-BHC	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	51-126	6	25	I
Heptachlor	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	41-126	2	25	I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111	0	25	I
Heptachlor Epoxide	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	56-116	2	25	I
gamma-Chlordane	0.0450	0.800	0.00300	ug/L	0.0500	0.00300 U	90	57-116	2	25	I
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	58-113	4	25	I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118	0	25	I
Dieldrin	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	59-120	2	25	I
4,4-DDE	0.0440	0.0800	0.00200	ug/L	0.0500	0.00200 U	88	58-121	9	25	I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500	0.00200 U	96	57-125	4	25	I
Endosulfan II	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	59-121	2	25	I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123	0	25	I
Endrin Aldehyde	0.0530	0.200	0.00300	ug/L	0.0500	0.00300 U	106	56-120	6	25	I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	53-133	2	25	I
4,4-DDT	0.0550	0.200	0.00400	ug/L	0.0500	0.00400 U	110	47-132	4	25	I
Endrin Ketone	0.0500	0.200	0.00200	ug/L	0.0500	0.00200 U	100	50-140	11	25	I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137	0	25	I
Surrogate: TCMX	0.0200			ug/L	0.0250		80	51-116			
Surrogate: Decachlorobiphenyl	0.0260			ug/L	0.0250		104	67-116			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401097 - Prep Method: 3550B

Blank (B401097-BLK1)				Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 20:16			
PCB 1016	0.00160 U	0.0500	0.00160	mg/kg wet						
PCB 1221	0.00630 U	0.0500	0.00630	mg/kg wet						
PCB 1232	0.00230 U	0.0500	0.00230	mg/kg wet						
PCB 1242	0.00160 U	0.0500	0.00160	mg/kg wet						
PCB 1248	0.00321 U	0.0500	0.00321	mg/kg wet						
PCB 1254	0.00280 U	0.0500	0.00280	mg/kg wet						
PCB 1260	0.00170 U	0.0500	0.00170	mg/kg wet						
Surrogate: Decachlorobiphenyl	0.0416			mg/kg wet	0.0333		125	28-148		
LCS (B401097-BS1)				Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 20:48			
PCB 1016	0.168	0.0500	0.00160	mg/kg wet	0.167		101	38-112		
PCB 1260	0.172	0.0500	0.00170	mg/kg wet	0.167		103	41-128		
Surrogate: Decachlorobiphenyl	0.0409			mg/kg wet	0.0333		123	28-148		
Matrix Spike (B401097-MS1)		Source: 1312115-01		Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 21:19			
PCB 1016	0.224	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	105	33-127		
PCB 1260	0.237	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	112	10-158		
Surrogate: Decachlorobiphenyl	0.0592			mg/kg dry	0.0426		139	28-148		
Matrix Spike Dup (B401097-MSD1)		Source: 1312115-01		Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 21:50			
PCB 1016	0.188	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	88	33-127	18	25
PCB 1260	0.194	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	91	10-158	20	25
Surrogate: Decachlorobiphenyl	0.0461			mg/kg dry	0.0426		108	28-148		

Batch: B401119 - Prep Method: 3510C

Blank (B401119-BLK1)				Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:00				
PCB 1016	0.163 U	0.500	0.163	ug/L							
PCB 1221	0.108 U	0.500	0.108	ug/L							
PCB 1232	0.141 U	0.500	0.141	ug/L							
PCB 1242	0.191 U	0.500	0.191	ug/L							
PCB 1248	0.133 U	0.500	0.133	ug/L							
PCB 1254	0.0950 U	0.500	0.0950	ug/L							
PCB 1260	0.144 U	0.500	0.144	ug/L							
Surrogate: Decachlorobiphenyl				0.644	ug/L	1.00	64	26-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401119 - Prep Method: 3510C

LCS (B401119-BS1)				Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:32			
PCB 1016	4.25	0.500	0.163	ug/L	5.00		85	55-113		
PCB 1260	4.54	0.500	0.144	ug/L	5.00		91	66-103		
Surrogate: Decachlorobiphenyl	0.540			ug/L	1.00		54	26-105		
Matrix Spike (B401119-MS1)		Source: 1312115-02		Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:03			
PCB 1016	4.76	0.500	0.163	ug/L	5.00	0.163 U	95	55-113		
PCB 1260	4.66	0.500	0.144	ug/L	5.00	0.144 U	93	66-103		
Surrogate: Decachlorobiphenyl	0.415			ug/L	1.00		42	26-105		
Matrix Spike Dup (B401119-MSD1)		Source: 1312115-02		Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:34			
PCB 1016	4.64	0.500	0.163	ug/L	5.00	0.163 U	93	55-113	3	25
PCB 1260	4.73	0.500	0.144	ug/L	5.00	0.144 U	95	66-103	1	25
Surrogate: Decachlorobiphenyl	0.461			ug/L	1.00		46	26-105		



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401095 - Prep Method: 3510C

Blank (B401095-BLK1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 09:44				
FL-PRO (C8-C40)	171 U	400	171	ug/L							
Surrogate: o-Terphenyl	76.0			ug/L	100		76	82-142			J2
Surrogate: n-Nonatriacontane	528			ug/L	600		88	42-193			
LCS (B401095-BS1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:19				
FL-PRO (C8-C40)	1200	400	171	ug/L	1410		85	55-118			
Surrogate: o-Terphenyl	79.0			ug/L	100		79	82-142			J2
Surrogate: n-Nonatriacontane	501			ug/L	600		84	42-193			
Matrix Spike (B401095-MS1)					Source: 1311125-07		Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:55		
FL-PRO (C8-C40)	4860	400	171	ug/L	1410	4660	14	41-101			J2
Surrogate: o-Terphenyl	71.0			ug/L	100		71	82-142			J2
Surrogate: n-Nonatriacontane	468			ug/L	600		78	42-193			
Matrix Spike Dup (B401095-MSD1)					Source: 1311125-07		Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 11:30		
FL-PRO (C8-C40)	4760	400	171	ug/L	1410	4660	7	41-101	2	20	J2
Surrogate: o-Terphenyl	72.0			ug/L	100		72	82-142			J2
Surrogate: n-Nonatriacontane	490			ug/L	600		82	42-193			

Batch: B401104 - Prep Method: 3550B

Blank (B401104-BLK1)					Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 13:55				
FL-PRO (C8-C40)	2.64 U	4.00	2.64	mg/kg wet							
Surrogate: o-Terphenyl	2.30			mg/kg wet	3.33		69	62-109			
Surrogate: n-Nonatriacontane	14.9			mg/kg wet	20.0		74	60-118			
LCS (B401104-BS1)					Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 14:25				
FL-PRO (C8-C40)	37.2	4.00	2.64	mg/kg wet	47.0		79	63-153			
Surrogate: o-Terphenyl	2.41			mg/kg wet	3.33		72	62-109			
Surrogate: n-Nonatriacontane	15.6			mg/kg wet	20.0		78	60-118			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401104 - Prep Method: 3550B

Matrix Spike (B401104-MS1)		Source: 1401055-01			Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 15:37				
FL-PRO (C8-C40)	28.5	4.32	2.85	mg/kg dry	50.8	2.85 U	56	62-204			J2
Surrogate: o-Terphenyl	1.66			mg/kg dry	3.60		46	62-109			J2
Surrogate: n-Nonatriacontane	11.4			mg/kg dry	21.6		53	60-118			J2
Matrix Spike Dup (B401104-MSD1)		Source: 1401055-01			Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 16:14				
FL-PRO (C8-C40)	36.0	4.32	2.85	mg/kg dry	50.8	2.85 U	71	62-204	23	25	
Surrogate: o-Terphenyl	2.19			mg/kg dry	3.60		61	62-109			J2
Surrogate: n-Nonatriacontane	14.8			mg/kg dry	21.6		68	60-118			



NELAP Certificate No. E84880



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(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401099 - Prep Method: 3050B

Blank (B401099-BLK1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:16				
Arsenic	0.220 U	1.00	0.220	mg/kg wet							
Cadmium	0.0970 U	0.500	0.0970	mg/kg wet							
Chromium	0.330 U	1.00	0.330	mg/kg wet							
Lead	0.240 U	1.00	0.240	mg/kg wet							
LCS (B401099-BS1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:19				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		101	80-120			
Cadmium	25.1	0.500	0.0970	mg/kg wet	25.0		101	80-120			
Chromium	24.7	1.00	0.330	mg/kg wet	25.0		99	80-120			
Lead	25.6	1.00	0.240	mg/kg wet	25.0		102	80-120			
LCS Dup (B401099-BSD1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:22				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		100	80-120	0.1	20	
Cadmium	25.2	0.500	0.0970	mg/kg wet	25.0		101	80-120	0.1	20	
Chromium	24.4	1.00	0.330	mg/kg wet	25.0		98	80-120	1	20	
Lead	25.5	1.00	0.240	mg/kg wet	25.0		102	80-120	0.2	20	
Matrix Spike (B401099-MS1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:25				
Arsenic	52.4	1.28	0.281	mg/kg dry	63.8	0.281 U	82	75-125			
Cadmium	48.7	0.638	0.124	mg/kg dry	63.8	0.124 U	76	75-125			
Chromium	48.4	1.28	0.421	mg/kg dry	63.8	0.421 U	76	75-125			
Lead	47.9	1.28	0.306	mg/kg dry	63.8	0.306 U	75	75-125			
Matrix Spike Dup (B401099-MSD1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:28				
Arsenic	55.0	1.28	0.281	mg/kg dry	63.8	0.281 U	86	75-125	5	20	
Cadmium	51.9	0.638	0.124	mg/kg dry	63.8	0.124 U	81	75-125	6	20	
Chromium	52.7	1.28	0.421	mg/kg dry	63.8	0.421 U	83	75-125	9	20	
Lead	51.6	1.28	0.306	mg/kg dry	63.8	0.306 U	81	75-125	7	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401107 - Prep Method: 3010A

Blank (B401107-BLK1)					Prepared: 20-Jan-14 14:06		Analyzed: 22-Jan-14 13:31				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401107-BS1)					Prepared: 20-Jan-14 14:06		Analyzed: 22-Jan-14 13:35				
Arsenic	497	10.0	4.00	ug/L	500		99	80-120			
Cadmium	497	5.00	1.00	ug/L	500		99	80-120			
Chromium	489	10.0	4.00	ug/L	500		98	80-120			
Lead	494	10.0	4.00	ug/L	500		99	80-120			
LCS Dup (B401107-BSD1)					Prepared: 20-Jan-14 14:06		Analyzed: 22-Jan-14 13:38				
Arsenic	495	10.0	4.00	ug/L	500		99	80-120	0.4	20	
Cadmium	495	5.00	1.00	ug/L	500		99	80-120	0.4	20	
Chromium	490	10.0	4.00	ug/L	500		98	80-120	0.3	20	
Lead	489	10.0	4.00	ug/L	500		98	80-120	1	20	
Matrix Spike (B401107-MS1)					Source: 1312092-01		Prepared: 20-Jan-14 14:06		Analyzed: 22-Jan-14 13:41		
Arsenic	541	10.0	4.00	ug/L	500	6.00	107	75-125			
Cadmium	493	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125			
Lead	472	10.0	4.00	ug/L	500	4.00 U	94	75-125			
Matrix Spike Dup (B401107-MSD1)					Source: 1312092-01		Prepared: 20-Jan-14 14:06		Analyzed: 22-Jan-14 13:44		
Arsenic	540	10.0	4.00	ug/L	500	6.00	107	75-125	0.2	20	
Cadmium	496	5.00	1.00	ug/L	500	1.00 U	99	75-125	0.5	20	
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125	0.02	20	
Lead	476	10.0	4.00	ug/L	500	4.00 U	95	75-125	0.8	20	



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401109 - Prep Method: 3010A

Blank (B401109-BLK1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:32				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401109-BS1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:35				
Arsenic	487	10.0	4.00	ug/L	500		97	80-120			
Cadmium	491	5.00	1.00	ug/L	500		98	80-120			
Chromium	482	10.0	4.00	ug/L	500		96	80-120			
Lead	490	10.0	4.00	ug/L	500		98	80-120			
Matrix Spike (B401109-MS1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:41	
Arsenic	517	10.0	4.00	ug/L	500	8.80	102	75-125			
Cadmium	446	5.00	1.00	ug/L	500	1.00 U	89	75-125			
Chromium	484	10.0	4.00	ug/L	500	4.00 U	97	75-125			
Lead	408	10.0	4.00	ug/L	500	4.00 U	82	75-125			
Matrix Spike Dup (B401109-MSD1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:45	
Arsenic	519	10.0	4.00	ug/L	500	8.80	102	75-125	0.4	20	
Cadmium	452	5.00	1.00	ug/L	500	1.00 U	90	75-125	1	20	
Chromium	480	10.0	4.00	ug/L	500	4.00 U	96	75-125	0.8	20	
Lead	415	10.0	4.00	ug/L	500	4.00 U	83	75-125	2	20	



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

SM 2540G - % Dry Solids - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401098 - Prep Method: % Solids

Duplicate (B401098-DUP1)		Source: 1312115-01			Prepared: 17-Jan-14 10:00		Analyzed: 17-Jan-14 16:52				
% Dry Solids	79.3	0.100		% by Weight		78.3			1	20	
Duplicate (B401098-DUP2)		Source: 1401070-01			Prepared: 17-Jan-14 10:00		Analyzed: 17-Jan-14 16:54				
% Dry Solids	91.3	0.100		% by Weight		90.7			0.7	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 1: Tierra Verde Resort & Marina
Project Manager: Nathan Miller

Reported:
24-Jan-14 09:02
Lab Work Order (COC): 1312117

Notes and Definitions

J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
I	Result is between LOQ/PQL and LOD/MDL.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



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CHAIN OF CUSTODY

Page 2 of 2



Lab Work Order Number: **1312117**

Client Name CB&I (Tampa)	Project Name SR679 Pinellas Bayway Structure E	Requested Analyses						Requested Turn Around	
Project Manager Nathan Miller	Project Number [none] 150929	6010 4 RCRA Metals	FLPRO	8081B::8082A::8270D-BNA	8260C-Full	8260C-Full	8081B::8082A::8270D-BNA::FLPRO::SM2540G	FDEP Facility No.:	
Client Address 725 U.S. Highway 301 South	Project Location Site #1							Rush requests subject to additional charge.	
City Tampa	PO Number							Rush requests subject to lab approval.	
State/Zip FL, 33619	Shipped By							Standard (days) 5	
Phone 813-612-3667 Fax (813) 626-1663	Tracking Number							Expedited (days)	
Sampler Jaime Penz	Sampler Signature							Requested Due Date	

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type (Grab / Composite)	Matrix Code	Container Count	Preservation Code								Sample Comments	Lab ID
						HNO3	H2SO4	ICE	ICE+	ICE-	ICE				
1															
2 TW-1	1/16/14	1523	G	GW	9	1	1	3	3			1			1312117-02
MS	1/16/14	1523	G	GW	4	0	1	3	0				Matrix Spike		1312117-03
MSD	1/16/14	1523	G	GW	4	0	1	3	0				Matrix Spike Dupe		1312117-04

Item Numbers 1-4	Relinquished By	Received By	Date/Time 1/13/14 800	Sample Kit Prepared By	Date/Time 12-9-13 11/14
Item Numbers 2-4	Relinquished By	Received By	Date/Time 1/15/14 1500	Comments	
Item Numbers 2-4	Relinquished By	Received By	Date/Time 1/16/14 1730		
Item Numbers	Relinquished By	Received By	Date/Time		
Cooler Numbers and Temperatures 1.9°C Wet Ice			Total # of Containers: 17	Please fill MS and MSD containers for QC	

Matrix Codes: GW=Ground Water, SO=Soil Preserv. Codes: HNO3=[Group Analysis], ICE=Frozen -10°C+MeOH, H2SO4=pH<2 w/ H2SO4+Store 4°C, ICE=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace,



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Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

24 January 2014
Lab Work Order (COC): 1312115

RE: SR679 Pinellas Bayway Structure E
Project Location: Site 2: 7-Eleven #29301
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **16-Jan-14 11:45**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-12 @ 3'	1312115-01	Soil	15-Jan-14 10:20	16-Jan-14 11:45
TW-1	1312115-02	Ground Water	16-Jan-14 13:59	16-Jan-14 17:30



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 17-Jan-14 20:43						Batch: B401112		
EPA Method 8260C - VOC/FULL						Analyzed: 17-Jan-14 20:43		
Dichlorodifluoromethane	0.00206 U	0.00250	0.00206	mg/kg dry	0.98			
Chloromethane	0.00183 U	0.00250	0.00183	mg/kg dry	0.98			
Vinyl Chloride	0.00163 U	0.00250	0.00163	mg/kg dry	0.98			
Bromomethane	0.00269 U	0.00626	0.00269	mg/kg dry	0.98			
Chloroethane	0.00108 U	0.00250	0.00108	mg/kg dry	0.98			
Trichlorofluoromethane	0.00157 U	0.00250	0.00157	mg/kg dry	0.98			
1,1-Dichloroethene	0.00161 U	0.00250	0.00161	mg/kg dry	0.98			
Acetone	0.00458 U	0.0626	0.00458	mg/kg dry	0.98			
Iodomethane (Methyl Iodide)	0.0142 U	0.0626	0.0142	mg/kg dry	0.98			
Carbon Disulfide	0.000833 U	0.0125	0.000833	mg/kg dry	0.98			
Methylene Chloride	0.0184 U	0.0250	0.0184	mg/kg dry	0.98			
trans-1,2-Dichloroethene	0.00158 U	0.00250	0.00158	mg/kg dry	0.98			
Methyl tert-Butyl Ether (MTBE)	0.00158 U	0.00250	0.00158	mg/kg dry	0.98			
1,1-Dichloroethane	0.00132 U	0.00250	0.00132	mg/kg dry	0.98			
Vinyl Acetate	0.0121 U	0.0125	0.0121	mg/kg dry	0.98			
2,2-Dichloropropane	0.00192 U	0.00250	0.00192	mg/kg dry	0.98			
cis-1,2-Dichloroethene	0.00159 U	0.00250	0.00159	mg/kg dry	0.98			
2-Butanone (MEK)	0.00599 U	0.0125	0.00599	mg/kg dry	0.98			
Bromochloromethane	0.000962 U	0.00250	0.000962	mg/kg dry	0.98			
Chloroform	0.000814 U	0.00250	0.000814	mg/kg dry	0.98			
1,1,1-Trichloroethane	0.00143 U	0.00250	0.00143	mg/kg dry	0.98			
Carbon Tetrachloride	0.00182 U	0.00250	0.00182	mg/kg dry	0.98			
1,1-Dichloropropene	0.00190 U	0.00250	0.00190	mg/kg dry	0.98			
Benzene	0.00155 U	0.00250	0.00155	mg/kg dry	0.98			
1,2-Dichloroethane	0.00108 U	0.00250	0.00108	mg/kg dry	0.98			
Trichloroethene (TCE)	0.00161 U	0.00250	0.00161	mg/kg dry	0.98			
1,2-Dichloropropane	0.00136 U	0.00250	0.00136	mg/kg dry	0.98			
Dibromomethane	0.000857 U	0.00250	0.000857	mg/kg dry	0.98			
Bromodichloromethane	0.000684 U	0.00250	0.000684	mg/kg dry	0.98			
2-Chloroethyl Vinyl Ether	0.00446 U	0.0125	0.00446	mg/kg dry	0.98			
cis-1,3-Dichloropropene	0.00126 U	0.00250	0.00126	mg/kg dry	0.98			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 17-Jan-14 20:43			
EPA Method 8260C - VOC/FULL					Analyzed: 17-Jan-14 20:43		Batch: B401112	
4-Methyl-2-Pentanone (MIBK)	0.00608 U	0.0250	0.00608	mg/kg dry	0.98			
2-Hexanone	0.00692 U	0.0250	0.00692	mg/kg dry	0.98			
Toluene	0.00151 U	0.00250	0.00151	mg/kg dry	0.98			
trans-1,3-Dichloropropene	0.00126 U	0.00250	0.00126	mg/kg dry	0.98			
1,1,2-Trichloroethane	0.00101 U	0.00250	0.00101	mg/kg dry	0.98			
Tetrachloroethene (PCE)	0.00104 U	0.0125	0.00104	mg/kg dry	0.98			
1,3-Dichloropropane	0.00100 U	0.00250	0.00100	mg/kg dry	0.98			
Dibromochloromethane	0.000644 U	0.0125	0.000644	mg/kg dry	0.98			
1,2-Dibromoethane (EDB)	0.00108 U	0.00250	0.00108	mg/kg dry	0.98			
Chlorobenzene	0.00120 U	0.00250	0.00120	mg/kg dry	0.98			
1,1,1,2-Tetrachloroethane	0.00102 U	0.00250	0.00102	mg/kg dry	0.98			
Ethylbenzene	0.00193 U	0.00250	0.00193	mg/kg dry	0.98			
m- & p-Xylenes	0.00532 U	0.00626	0.00532	mg/kg dry	0.98			
o-Xylene	0.00234 U	0.00250	0.00234	mg/kg dry	0.98			
Styrene	0.00195 U	0.00250	0.00195	mg/kg dry	0.98			
Bromoform	0.00126 U	0.00250	0.00126	mg/kg dry	0.98			
Isopropylbenzene (Cumene)	0.00239 U	0.00250	0.00239	mg/kg dry	0.98			
Bromobenzene	0.00133 U	0.00250	0.00133	mg/kg dry	0.98			
1,1,2,2-Tetrachloroethane	0.00125 U	0.00250	0.00125	mg/kg dry	0.98			
1,2,3-Trichloropropane	0.00205 U	0.00250	0.00205	mg/kg dry	0.98			
n-Propylbenzene	0.00228 U	0.00626	0.00228	mg/kg dry	0.98			
2-Chlorotoluene	0.00198 U	0.00250	0.00198	mg/kg dry	0.98			
4-Chlorotoluene	0.00207 U	0.00250	0.00207	mg/kg dry	0.98			
1,3,5-Trimethylbenzene	0.00220 U	0.00250	0.00220	mg/kg dry	0.98			
tert-Butyl Benzene	0.00231 U	0.00250	0.00231	mg/kg dry	0.98			
1,2,4-Trimethylbenzene	0.00330 U	0.00626	0.00330	mg/kg dry	0.98			
sec-Butyl Benzene	0.00226 U	0.00250	0.00226	mg/kg dry	0.98			
1,3-Dichlorobenzene	0.00167 U	0.00250	0.00167	mg/kg dry	0.98			
p-Isopropyltoluene	0.00204 U	0.00250	0.00204	mg/kg dry	0.98			
1,4-Dichlorobenzene	0.00156 U	0.00250	0.00156	mg/kg dry	0.98			
1,2-Dichlorobenzene	0.00175 U	0.00250	0.00175	mg/kg dry	0.98			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 17-Jan-14 20:43								
Analyzed: 17-Jan-14 20:43								
Batch: B401112								
EPA Method 8260C - VOC/FULL								
n-Butyl Benzene	0.00264 U	0.00626	0.00264	mg/kg dry	0.98			
1,2-Dibromo-3-Chloropropane	0.00137 U	0.00626	0.00137	mg/kg dry	0.98			
1,2,4-Trichlorobenzene	0.00246 U	0.00250	0.00246	mg/kg dry	0.98			
Naphthalene	0.00328 U	0.00500	0.00328	mg/kg dry	0.98			
Hexachlorobutadiene	0.00227 U	0.00375	0.00227	mg/kg dry	0.98			
1,2,3-Trichlorobenzene	0.000227 U	0.00250	0.000227	mg/kg dry	0.98			
Surrogate: Dibromofluoromethane	50.6			ug/kg		101 %	80-120	
Surrogate: 1,2-Dichloroethane-d4	50.1			ug/kg		100 %	80-120	
Surrogate: Toluene-d8	50.0			ug/kg		100 %	80-120	
Surrogate: 4-Bromofluorobenzene	49.1			ug/kg		98 %	68-120	
Prepared: 20-Jan-14 13:11								
Analyzed: 20-Jan-14 22:34								
Batch: B401105								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	0.0294 U	0.0638	0.0294	mg/kg dry	1			
1,2,4-Trichlorobenzene	0.0277 U	0.0638	0.0277	mg/kg dry	1			
1,2-Dichlorobenzene	0.0409 U	0.0638	0.0409	mg/kg dry	1			
1,3-Dichlorobenzene	0.0766 U	0.128	0.0766	mg/kg dry	1			
1,4-Dichlorobenzene	0.0665 U	0.128	0.0665	mg/kg dry	1			
1-Methylnaphthalene	0.0287 U	0.0638	0.0287	mg/kg dry	1			
2,4,5-Trichlorophenol	0.0710 U	0.128	0.0710	mg/kg dry	1			
1-Chloronaphthalene	0.0306 U	0.0638	0.0306	mg/kg dry	1			
2,4,6-Trichlorophenol	0.0940 U	0.128	0.0940	mg/kg dry	1			
1-Naphthylamine	0.0791 U	0.191	0.0791	mg/kg dry	1			
2,4-Dichlorophenol	0.0715 U	0.128	0.0715	mg/kg dry	1			
2,3,4,6-Tetrachlorophenol	0.0574 U	0.128	0.0574	mg/kg dry	1			
2,4-Dimethylphenol	0.0682 U	0.255	0.0682	mg/kg dry	1			
2,4-Dinitrophenol	0.133 U	0.255	0.133	mg/kg dry	1			
2,4-Dinitrotoluene	0.0156 U	0.0638	0.0156	mg/kg dry	1			
2,6-Dichlorophenol	0.0507 U	0.0638	0.0507	mg/kg dry	1			
2-Chloronaphthalene	0.0294 U	0.0638	0.0294	mg/kg dry	1			
2-Chlorophenol	0.0907 U	0.128	0.0907	mg/kg dry	1			



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Project Number: 150929
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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 20-Jan-14 13:11			
EPA Method 8270D - BNAs					Analyzed: 20-Jan-14 22:34		Batch: B401105	
2-Methylnaphthalene	0.0400 U	0.0638	0.0400	mg/kg dry	1			
2,6-Dinitrotoluene	0.0166 U	0.0638	0.0166	mg/kg dry	1			
2-Methylphenol	0.0510 U	0.0638	0.0510	mg/kg dry	1			
2-Nitroaniline	0.0473 U	0.0638	0.0473	mg/kg dry	1			
2-Nitrophenol	0.0466 U	0.255	0.0466	mg/kg dry	1			
3,3-Dichlorobenzidine	0.212 U	0.255	0.212	mg/kg dry	1			
3/4-Methylphenol	0.0642 U	0.128	0.0642	mg/kg dry	1			
3-Nitroaniline	0.0427 U	0.128	0.0427	mg/kg dry	1			
4-Bromophenyl-Phenylether	0.0446 U	0.0638	0.0446	mg/kg dry	1			
2-Naphthylamine	0.0396 U	0.0638	0.0396	mg/kg dry	1			
4-Chloro-3-Methylphenol	0.0674 U	0.128	0.0674	mg/kg dry	1			
4-Chloroaniline	0.0434 U	0.128	0.0434	mg/kg dry	1			
4-Chlorophenyl-Phenylether	0.0278 U	0.0638	0.0278	mg/kg dry	1			
4-Nitroaniline	0.0300 U	0.128	0.0300	mg/kg dry	1			
4-Nitrophenol	0.149 U	0.255	0.149	mg/kg dry	1			
Acenaphthene	0.0411 U	0.0638	0.0411	mg/kg dry	1			
4,6-Dinitro-2-Methylphenol	0.111 U	0.255	0.111	mg/kg dry	1			
Acenaphthylene	0.0136 U	0.0638	0.0136	mg/kg dry	1			
Anthracene	0.0203 U	0.0638	0.0203	mg/kg dry	1			
Benzo(a)anthracene	0.0200 U	0.0638	0.0200	mg/kg dry	1			
Benzo(a)pyrene	0.0189 U	0.0638	0.0189	mg/kg dry	1			
Benzo(b)fluoranthene	0.0238 U	0.0638	0.0238	mg/kg dry	1			
4-Dimethylaminoazobenzene	0.0255 U	0.0638	0.0255	mg/kg dry	1			
Benzo(g,h,i)perylene	0.0285 U	0.0638	0.0285	mg/kg dry	1			
Benzo(k)fluoranthene	0.0333 U	0.0638	0.0333	mg/kg dry	1			
Benzyl alcohol	0.0495 U	0.0638	0.0495	mg/kg dry	1			
bis(2-Chloroethoxy)methane	0.0308 U	0.0638	0.0308	mg/kg dry	1			
Bis(2-Chloroethyl)ether	0.0475 U	0.0638	0.0475	mg/kg dry	1			
Bis(2-chloroisopropyl)ether	0.0663 U	0.128	0.0663	mg/kg dry	1			
Bis(2-Ethylhexyl)phthalate	0.0190 U	0.0638	0.0190	mg/kg dry	1			
Aniline	0.0677 U	0.128	0.0677	mg/kg dry	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 13:11								
Analyzed: 20-Jan-14 22:34								
Batch: B401105								
EPA Method 8270D - BNAs								
Butylbenzylphthalate	0.0316 U	0.0638	0.0316	mg/kg dry	1			
Carbazole	0.0328 U	0.0638	0.0328	mg/kg dry	1			
Azobenzene	0.0255 U	0.0638	0.0255	mg/kg dry	1			
Chrysene	0.0252 U	0.0638	0.0252	mg/kg dry	1			
Benzidine	0.220 U	0.255	0.220	mg/kg dry	1			
Dibenzo(a,h)anthracene	0.0202 U	0.0638	0.0202	mg/kg dry	1			
Dibenzofuran	0.0326 U	0.0638	0.0326	mg/kg dry	1			
Diethylphthalate	0.0208 U	0.0638	0.0208	mg/kg dry	1			
Dimethylphthalate	0.0428 U	0.0638	0.0428	mg/kg dry	1			
Di-n-Butyl Phthalate	0.0262 U	0.0638	0.0262	mg/kg dry	1			
Di-n-Octyl Phthalate	0.0249 U	0.0638	0.0249	mg/kg dry	1			
Fluoranthene	0.0190 U	0.0638	0.0190	mg/kg dry	1			
Fluorene	0.0273 U	0.0638	0.0273	mg/kg dry	1			
Hexachlorobenzene	0.0494 U	0.0638	0.0494	mg/kg dry	1			
Hexachlorobutadiene	0.0494 U	0.0638	0.0494	mg/kg dry	1			
Hexachlorocyclopentadiene	0.0223 U	0.0638	0.0223	mg/kg dry	1			
Hexachloroethane	0.0319 U	0.0638	0.0319	mg/kg dry	1			
Indeno(1,2,3-cd)pyrene	0.0305 U	0.0638	0.0305	mg/kg dry	1			
Isophorone	0.0286 U	0.0638	0.0286	mg/kg dry	1			
Naphthalene	0.0270 U	0.0638	0.0270	mg/kg dry	1			
Nitrobenzene	0.0502 U	0.0638	0.0502	mg/kg dry	1			
N-Nitrosodi-n-butylamine	0.0284 U	0.0638	0.0284	mg/kg dry	1			
N-Nitroso-di-n-propylamine	0.0548 U	0.0638	0.0548	mg/kg dry	1			
N-Nitrosodiphenylamine	0.0404 U	0.0638	0.0404	mg/kg dry	1			
Pentachlorophenol	0.116 U	0.255	0.116	mg/kg dry	1			
Phenanthrene	0.0152 U	0.0638	0.0152	mg/kg dry	1			
Phenol	0.0691 U	0.128	0.0691	mg/kg dry	1			
Pyrene	0.0256 U	0.0638	0.0256	mg/kg dry	1			
N-Nitrosodiethylamine	0.0587 U	0.0638	0.0587	mg/kg dry	1			
N-Nitrosodimethylamine	0.0613 U	0.0638	0.0613	mg/kg dry	1			
N-Nitrosomethylethylamine	0.0447 U	0.0638	0.0447	mg/kg dry	1			



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 13:11								
Analyzed: 20-Jan-14 22:34 Batch: B401105								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.0472 U	0.0638	0.0472	mg/kg dry	1			
N-Nitrosopiperidine	0.0447 U	0.0638	0.0447	mg/kg dry	1			
N-Nitrosopyrrolidine	0.0345 U	0.0638	0.0345	mg/kg dry	1			
o-Toluidine	0.0434 U	0.128	0.0434	mg/kg dry	1			
Pyridine	0.0843 U	0.255	0.0843	mg/kg dry	1			
Surrogate: 2,4,6-Tribromophenol	1.59			mg/kg dry			75 % 45-107	
Surrogate: 2-Fluorobiphenyl	0.759			mg/kg dry			71 % 50-100	
Surrogate: 2-Fluorophenol	1.34			mg/kg dry			63 % 36-100	
Surrogate: Nitrobenzene-d5	0.735			mg/kg dry			69 % 25-130	
Surrogate: Phenol-d5	1.54			mg/kg dry			73 % 34-109	
Surrogate: Terphenyl-d14	0.896			mg/kg dry			84 % 55-105	
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 12:05 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.000881 U	0.00128	0.000881	mg/kg dry	1			
beta-BHC	0.000830 U	0.00128	0.000830	mg/kg dry	1			
gamma-BHC	0.00112 U	0.00128	0.00112	mg/kg dry	1			
delta-BHC	0.000843 U	0.00128	0.000843	mg/kg dry	1			
Heptachlor	0.000970 U	0.00128	0.000970	mg/kg dry	1			
Aldrin	0.000702 U	0.00128	0.000702	mg/kg dry	1			
Heptachlor Epoxide	0.000740 U	0.00128	0.000740	mg/kg dry	1			
gamma-Chlordane	0.000651 U	0.00128	0.000651	mg/kg dry	1			
Endosulfan I	0.000651 U	0.00128	0.000651	mg/kg dry	1			
alpha-Chlordane	0.000626 U	0.00128	0.000626	mg/kg dry	1			
Dieldrin	0.000677 U	0.00128	0.000677	mg/kg dry	1			
4,4-DDE	0.000830 U	0.00128	0.000830	mg/kg dry	1			
Endrin	0.000702 U	0.00128	0.000702	mg/kg dry	1			
Endosulfan II	0.000651 U	0.00128	0.000651	mg/kg dry	1			
4,4-DDD	0.000843 U	0.00128	0.000843	mg/kg dry	1			
Endrin Aldehyde	0.000779 U	0.00128	0.000779	mg/kg dry	1			
Endosulfan Sulfate	0.000740 U	0.00128	0.000740	mg/kg dry	1			



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SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 12:05 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
4,4-DDT	0.000740 U	0.00128	0.000740	mg/kg dry	1			
Endrin Ketone	0.000868 U	0.00128	0.000868	mg/kg dry	1			
Methoxychlor	0.00106 U	0.00128	0.00106	mg/kg dry	1			
Chlordane	0.00689 U	0.0638	0.00689	mg/kg dry	1			
Toxaphene	0.0230 U	0.0638	0.0230	mg/kg dry	1			
Surrogate: TCMX	0.00913			mg/kg dry			86 % 47-122	
Surrogate: Decachlorobiphenyl	0.0122			mg/kg dry			115 % 23-150	
Prepared: 17-Jan-14 09:20								
Analyzed: 17-Jan-14 22:22 Batch: B401097								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.00204 U	0.0638	0.00204	mg/kg dry	1			
PCB 1221	0.00804 U	0.0638	0.00804	mg/kg dry	1			
PCB 1232	0.00294 U	0.0638	0.00294	mg/kg dry	1			
PCB 1242	0.00204 U	0.0638	0.00204	mg/kg dry	1			
PCB 1248	0.00410 U	0.0638	0.00410	mg/kg dry	1			
PCB 1254	0.00357 U	0.0638	0.00357	mg/kg dry	1			
PCB 1260	0.00217 U	0.0638	0.00217	mg/kg dry	1			
Surrogate: Decachlorobiphenyl	0.0486			mg/kg dry			114 % 28-148	
Prepared: 20-Jan-14 10:15								
Analyzed: 20-Jan-14 16:50 Batch: B401104								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	3.37 U	5.11	3.37	mg/kg dry	1			
Surrogate: o-Terphenyl	3.13			mg/kg dry			74 % 62-109	
Surrogate: n-Nonatriacontane	18.8			mg/kg dry			74 % 60-118	
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:31 Batch: B401099								
EPA Method 6010C - Metals by ICP								



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SB-12 @ 3'
1312115-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:31								
Batch: B401099								
EPA Method 6010C - Metals by ICP								
Arsenic	0.281 U	1.28	0.281	mg/kg dry	1			
Cadmium	0.124 U	0.638	0.124	mg/kg dry	1			
Chromium	0.421 U	1.28	0.421	mg/kg dry	1			
Lead	0.306 U	1.28	0.306	mg/kg dry	1			
Prepared: 17-Jan-14 10:00								
Analyzed: 17-Jan-14 16:30								
Batch: B401098								
SM 2540G - % Dry Solids								
% Dry Solids	78.3	0.100	0.100	% by Weight	1			



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Reported:
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TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 18-Jan-14 13:13			
					Analyzed: 18-Jan-14 13:13			
EPA Method 8260C - VOC/FULL					Batch: B401113			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L	1			
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L	1			
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L	1			
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L	1			
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L	1			
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L	1			
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L	1			
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L	1			
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L	1			
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L	1			
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L	1			
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L	1			
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L	1			
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L	1			
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L	1			
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L	1			
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L	1			
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L	1			
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L	1			
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L	1			
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L	1			
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L	1			
2-Hexanone	4.00 U	20.0	4.00	ug/L	1			
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L	1			
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L	1			
Acetone	5.00 U	10.0	5.00	ug/L	1			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Bromobenzene	0.410 U	2.00	0.410	ug/L	1			
Bromochloromethane	0.500 U	5.00	0.500	ug/L	1			



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Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 18-Jan-14 13:13			
EPA Method 8260C - VOC/FULL					Analyzed: 18-Jan-14 13:13			
					Batch: B401113			
Bromodichloromethane	0.540 U	0.600	0.540	ug/L	1			
Bromoform	0.650 U	2.00	0.650	ug/L	1			
Bromomethane	2.00 U	5.00	2.00	ug/L	1			
Carbon Disulfide	0.800 U	2.00	0.800	ug/L	1			
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L	1			
Chlorobenzene	0.560 U	2.00	0.560	ug/L	1			
Chloroethane	1.17 U	2.00	1.17	ug/L	1			
Chloroform	1.00 U	2.00	1.00	ug/L	1			
Chloromethane	0.560 U	2.00	0.560	ug/L	1			
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L	1			
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L	1			
Dibromochloromethane	0.710 U	2.00	0.710	ug/L	1			
Dibromomethane	0.250 U	2.00	0.250	ug/L	1			
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L	1			
Ethylbenzene	0.500 U	2.00	0.500	ug/L	1			
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L	1			
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L	1			
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L	1			
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L	1			
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	1			
Methylene Chloride	2.50 U	5.00	2.50	ug/L	1			
Naphthalene	1.36 U	5.00	1.36	ug/L	1			
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L	1			
n-Propylbenzene	0.630 U	2.00	0.630	ug/L	1			
o-Xylene	0.660 U	2.00	0.660	ug/L	1			
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L	1			
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L	1			
Styrene	0.640 U	2.00	0.640	ug/L	1			
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L	1			
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L	1			
Toluene	0.580 U	2.00	0.580	ug/L	1			



NELAP Certificate No. E84880



1910 Harden Boulevard
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(863) 686-4271 Phone
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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 18-Jan-14 13:13								
Analyzed: 18-Jan-14 13:13 Batch: B401113								
EPA Method 8260C - VOC/FULL								
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L	1			
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L	1			
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L	1			
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L	1			
Vinyl Acetate	1.63 U	2.00	1.63	ug/L	1			
Vinyl Chloride	0.970 U	1.00	0.970	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	51.2			ug/L			102 % 80-120	
Surrogate: 4-Bromofluorobenzene	48.5			ug/L			97 % 80-120	
Surrogate: Dibromofluoromethane	52.6			ug/L			105 % 80-120	
Surrogate: Toluene-d8	49.6			ug/L			99 % 80-120	
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 14:44 Batch: B401120								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L	1			
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L	1			
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L	1			
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L	1			
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L	1			
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L	1			
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L	1			
1-Naphthylamine	5.03 U	10.0	5.03	ug/L	1			
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L	1			
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L	1			
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L	1			
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L	1			
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L	1			
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L	1			
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L	1			
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L	1			
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L	1			
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L	1			



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Project Number: 150929
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Project Manager: Nathan Miller

Reported:
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Lab Work Order (COC): 1312115

TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 14:44								
Batch: B401120								
EPA Method 8270D - BNAs								
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L	1			
2-Chlorophenol	1.47 U	5.00	1.47	ug/L	1			
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L	1			
2-Methylphenol	0.534 U	5.00	0.534	ug/L	1			
2-Naphthylamine	2.37 U	10.0	2.37	ug/L	1			
2-Nitroaniline	0.892 U	20.0	0.892	ug/L	1			
2-Nitrophenol	1.73 U	20.0	1.73	ug/L	1			
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L	1			
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L	1			
3-Nitroaniline	1.26 U	5.00	1.26	ug/L	1			
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L	1			
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L	1			
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L	1			
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L	1			
4-Chloroaniline	2.88 U	5.00	2.88	ug/L	1			
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L	1			
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L	1			
4-Nitroaniline	1.20 U	5.00	1.20	ug/L	1			
4-Nitrophenol	0.717 U	20.0	0.717	ug/L	1			
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L	1			
Acenaphthene	0.0640 U	1.00	0.0640	ug/L	1			
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L	1			
Aniline	3.70 U	4.00	3.70	ug/L	1			
Anthracene	0.0670 U	0.300	0.0670	ug/L	1			
Azobenzene	0.785 U	1.00	0.785	ug/L	1			
Benidine	5.70 U	50.0	5.70	ug/L	1			
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L	1			
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L	1			
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L	1			
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L	1			
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L	1			



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Project Manager: Nathan Miller

Reported:
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TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 10:42			
EPA Method 8270D - BNAs					Analyzed: 22-Jan-14 14:44		Batch: B401120	
Benzyl alcohol	0.386 U	5.00	0.386	ug/L	1			
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L	1			
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L	1			
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L	1			
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L	1			
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L	1			
Carbazole	0.521 U	5.00	0.521	ug/L	1			
Chrysene	0.135 U	0.200	0.135	ug/L	1			
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L	1			
Dibenzofuran	0.716 U	5.00	0.716	ug/L	1			
Diethylphthalate	0.795 U	5.00	0.795	ug/L	1			
Dimethylphthalate	0.617 U	5.00	0.617	ug/L	1			
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Fluoranthene	0.0910 U	0.300	0.0910	ug/L	1			
Fluorene	0.0660 U	1.00	0.0660	ug/L	1			
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L	1			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L	1			
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L	1			
Hexachloroethane	1.53 U	5.00	1.53	ug/L	1			
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L	1			
Isophorone	1.00 U	5.00	1.00	ug/L	1			
Naphthalene	0.0640 U	1.00	0.0640	ug/L	1			
Nitrobenzene	0.746 U	3.50	0.746	ug/L	1			
o-Toluidine	3.32 U	5.00	3.32	ug/L	1			
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L	1			
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L	1			
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L	1			
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L	1			
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L	1			
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L	1			



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24-Jan-14 08:41
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TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 14:44								
Batch: B401120								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L	1			
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L	1			
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L	1			
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L	1			
Pentachlorophenol	1.72 U	20.0	1.72	ug/L	1			
Phenanthrene	0.0780 U	0.200	0.0780	ug/L	1			
Phenol	0.796 U	6.50	0.796	ug/L	1			
Pyrene	0.0930 U	0.300	0.0930	ug/L	1			
Pyridine	0.689 U	5.00	0.689	ug/L	1			
Surrogate: 2,4,6-Tribromophenol	26.8			ug/L			54 % 15-122	
Surrogate: 2-Fluorobiphenyl	15.3			ug/L			61 % 49-100	
Surrogate: 2-Fluorophenol	11.9			ug/L			24 % 1-100	
Surrogate: Nitrobenzene-d5	14.5			ug/L			58 % 47-106	
Surrogate: Phenol-d5	8.96			ug/L			18 % 2-100	
Surrogate: Terphenyl-d14	18.7			ug/L			75 % 56-108	
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 01:28								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
beta-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
gamma-BHC	0.00400 U	0.100	0.00400	ug/L	1			
delta-BHC	0.00300 U	0.0500	0.00300	ug/L	1			
Heptachlor	0.00300 U	0.0500	0.00300	ug/L	1			
Aldrin	0.00200 U	0.0500	0.00200	ug/L	1			
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L	1			
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Endosulfan I	0.00200 U	0.100	0.00200	ug/L	1			
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Dieldrin	0.00200 U	0.100	0.00200	ug/L	1			
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L	1			
Endrin	0.00200 U	0.200	0.00200	ug/L	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 01:28								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
Endosulfan II	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L	1			
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L	1			
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDT	0.00400 U	0.200	0.00400	ug/L	1			
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L	1			
Methoxychlor	0.00400 U	0.200	0.00400	ug/L	1			
Chlordane	0.150 U	1.00	0.150	ug/L	1			
Toxaphene	0.520 U	1.00	0.520	ug/L	1			
Surrogate: TCMX	0.0200			ug/L			80 % 51-116	
Surrogate: Decachlorobiphenyl	0.0280			ug/L			112 % 67-116	
Prepared: 21-Jan-14 10:41								
Analyzed: 22-Jan-14 22:37								
Batch: B401119								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.163 U	0.500	0.163	ug/L	1			
PCB 1221	0.108 U	0.500	0.108	ug/L	1			
PCB 1232	0.141 U	0.500	0.141	ug/L	1			
PCB 1242	0.191 U	0.500	0.191	ug/L	1			
PCB 1248	0.133 U	0.500	0.133	ug/L	1			
PCB 1254	0.0950 U	0.500	0.0950	ug/L	1			
PCB 1260	0.144 U	0.500	0.144	ug/L	1			
Surrogate: Decachlorobiphenyl	0.551			ug/L			55 % 26-105	
Prepared: 17-Jan-14 14:31								
Analyzed: 18-Jan-14 17:26								
Batch: B401095								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	171 U	400	171	ug/L	1			
Surrogate: o-Terphenyl	78.0			ug/L			78 % 82-142	J2
Surrogate: n-Nonatriacontane	519			ug/L			86 % 42-193	



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Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
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TW-1
1312115-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 14:06								
Analyzed: 22-Jan-14 14:00 Batch: B401107								
EPA Method 6010C - Metals by ICP								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Prepared: 20-Jan-14 14:32								
Analyzed: 21-Jan-14 13:01 Batch: B401109								
EPA Method 6010C - Metals by ICP (Lab-Filtered)								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			



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Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	RPD	RPD	RPD	Qualifiers
							Limits	Limit	Limit		
Batch: B401112 - Prep Method: 5035 (low)											
Blank (B401112-BLK1)					Prepared: 17-Jan-14 18:22		Analyzed: 17-Jan-14 18:22				
Dichlorodifluoromethane	0.00164 U	0.00200	0.00164	mg/kg wet							
Chloromethane	0.00147 U	0.00200	0.00147	mg/kg wet							
Vinyl Chloride	0.00130 U	0.00200	0.00130	mg/kg wet							
Bromomethane	0.00215 U	0.00500	0.00215	mg/kg wet							
Chloroethane	0.000864 U	0.00200	0.000864	mg/kg wet							
Trichlorofluoromethane	0.00125 U	0.00200	0.00125	mg/kg wet							
1,1-Dichloroethene	0.00129 U	0.00200	0.00129	mg/kg wet							
Acetone	0.00366 U	0.0500	0.00366	mg/kg wet							
Iodomethane (Methyl Iodide)	0.0113 U	0.0500	0.0113	mg/kg wet							
Carbon Disulfide	0.000666 U	0.0100	0.000666	mg/kg wet							
Methylene Chloride	0.0147 U	0.0200	0.0147	mg/kg wet							
trans-1,2-Dichloroethene	0.00126 U	0.00200	0.00126	mg/kg wet							
Methyl tert-Butyl Ether (MTBE)	0.00126 U	0.00200	0.00126	mg/kg wet							
1,1-Dichloroethane	0.00106 U	0.00200	0.00106	mg/kg wet							
Vinyl Acetate	0.00964 U	0.0100	0.00964	mg/kg wet							
2,2-Dichloropropane	0.00154 U	0.00200	0.00154	mg/kg wet							
cis-1,2-Dichloroethene	0.00127 U	0.00200	0.00127	mg/kg wet							
2-Butanone (MEK)	0.00479 U	0.0100	0.00479	mg/kg wet							
Bromochloromethane	0.000769 U	0.00200	0.000769	mg/kg wet							
Chloroform	0.000651 U	0.00200	0.000651	mg/kg wet							
1,1,1-Trichloroethane	0.00114 U	0.00200	0.00114	mg/kg wet							
Carbon Tetrachloride	0.00145 U	0.00200	0.00145	mg/kg wet							
1,1-Dichloropropene	0.00152 U	0.00200	0.00152	mg/kg wet							
Benzene	0.00124 U	0.00200	0.00124	mg/kg wet							
1,2-Dichloroethane	0.000863 U	0.00200	0.000863	mg/kg wet							
Trichloroethene (TCE)	0.00128 U	0.00200	0.00128	mg/kg wet							
1,2-Dichloropropane	0.00109 U	0.00200	0.00109	mg/kg wet							
Dibromomethane	0.000685 U	0.00200	0.000685	mg/kg wet							
Bromodichloromethane	0.000547 U	0.00200	0.000547	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.00356 U	0.0100	0.00356	mg/kg wet							
cis-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet							
4-Methyl-2-Pentanone (MIBK)	0.00486 U	0.0200	0.00486	mg/kg wet							
2-Hexanone	0.00553 U	0.0200	0.00553	mg/kg wet							



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401112 - Prep Method: 5035 (low)

Blank (B401112-BLK1)

Prepared: 17-Jan-14 18:22

Analyzed: 17-Jan-14 18:22

Toluene	0.00121 U	0.00200	0.00121	mg/kg wet
trans-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
1,1,2-Trichloroethane	0.000804 U	0.00200	0.000804	mg/kg wet
Tetrachloroethene (PCE)	0.000833 U	0.0100	0.000833	mg/kg wet
1,3-Dichloropropane	0.000802 U	0.00200	0.000802	mg/kg wet
Dibromochloromethane	0.000515 U	0.0100	0.000515	mg/kg wet
1,2-Dibromoethane (EDB)	0.000862 U	0.00200	0.000862	mg/kg wet
Chlorobenzene	0.000960 U	0.00200	0.000960	mg/kg wet
1,1,1,2-Tetrachloroethane	0.000812 U	0.00200	0.000812	mg/kg wet
Ethylbenzene	0.00154 U	0.00200	0.00154	mg/kg wet
m- & p-Xylenes	0.00425 U	0.00500	0.00425	mg/kg wet
o-Xylene	0.00187 U	0.00200	0.00187	mg/kg wet
Styrene	0.00156 U	0.00200	0.00156	mg/kg wet
Bromoform	0.00101 U	0.00200	0.00101	mg/kg wet
Isopropylbenzene (Cumene)	0.00191 U	0.00200	0.00191	mg/kg wet
Bromobenzene	0.00106 U	0.00200	0.00106	mg/kg wet
1,1,2,2-Tetrachloroethane	0.00100 U	0.00200	0.00100	mg/kg wet
1,2,3-Trichloropropane	0.00164 U	0.00200	0.00164	mg/kg wet
n-Propylbenzene	0.00182 U	0.00500	0.00182	mg/kg wet
2-Chlorotoluene	0.00158 U	0.00200	0.00158	mg/kg wet
4-Chlorotoluene	0.00166 U	0.00200	0.00166	mg/kg wet
1,3,5-Trimethylbenzene	0.00176 U	0.00200	0.00176	mg/kg wet
tert-Butyl Benzene	0.00185 U	0.00200	0.00185	mg/kg wet
1,2,4-Trimethylbenzene	0.00264 U	0.00500	0.00264	mg/kg wet
sec-Butyl Benzene	0.00181 U	0.00200	0.00181	mg/kg wet
1,3-Dichlorobenzene	0.00134 U	0.00200	0.00134	mg/kg wet
p-Isopropyltoluene	0.00163 U	0.00200	0.00163	mg/kg wet
1,4-Dichlorobenzene	0.00125 U	0.00200	0.00125	mg/kg wet
1,2-Dichlorobenzene	0.00140 U	0.00200	0.00140	mg/kg wet
n-Butyl Benzene	0.00211 U	0.00500	0.00211	mg/kg wet
1,2-Dibromo-3-Chloropropane	0.00109 U	0.00500	0.00109	mg/kg wet
1,2,4-Trichlorobenzene	0.00197 U	0.00200	0.00197	mg/kg wet
Naphthalene	0.00263 U	0.00400	0.00263	mg/kg wet



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Blank (B401112-BLK1)				Prepared: 17-Jan-14 18:22			Analyzed: 17-Jan-14 18:22				
Hexachlorobutadiene	0.00182 U	0.00300	0.00182	mg/kg wet							
1,2,3-Trichlorobenzene	0.000181 U	0.00200	0.000181	mg/kg wet							
Surrogate: Dibromofluoromethane	51.2			ug/kg	50.0		102	80-120			
Surrogate: 1,2-Dichloroethane-d4	50.0			ug/kg	50.0		100	80-120			
Surrogate: Toluene-d8	50.1			ug/kg	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	49.4			ug/kg	50.0		99	68-120			
LCS (B401112-BS1)				Prepared: 17-Jan-14 18:50			Analyzed: 17-Jan-14 18:50				
Dichlorodifluoromethane	0.0383	0.00200	0.00164	mg/kg wet	0.0400		96	65-129			
Chloromethane	0.0390	0.00200	0.00147	mg/kg wet	0.0400		97	71-119			
Vinyl Chloride	0.0384	0.00200	0.00130	mg/kg wet	0.0400		96	74-121			
Bromomethane	0.0406	0.00500	0.00215	mg/kg wet	0.0400		102	39-142			
Chloroethane	0.0384	0.00200	0.000864	mg/kg wet	0.0400		96	69-121			
Trichlorofluoromethane	0.0392	0.00200	0.00125	mg/kg wet	0.0400		98	69-132			
1,1-Dichloroethene	0.0392	0.00200	0.00129	mg/kg wet	0.0400		98	69-128			
Acetone	0.0894	0.0500	0.00366	mg/kg wet	0.100		89	52-133			
Iodomethane (Methyl Iodide)	0.0273	0.0500	0.0113	mg/kg wet	0.0400		68	33-137			I
Carbon Disulfide	0.0373	0.0100	0.000666	mg/kg wet	0.0400		93	64-125			
Methylene Chloride	0.0319	0.0200	0.0147	mg/kg wet	0.0400		80	44-151			
trans-1,2-Dichloroethene	0.0393	0.00200	0.00126	mg/kg wet	0.0400		98	80-116			
Methyl tert-Butyl Ether (MTBE)	0.0390	0.00200	0.00126	mg/kg wet	0.0400		98	71-120			
1,1-Dichloroethane	0.0393	0.00200	0.00106	mg/kg wet	0.0400		98	80-114			
Vinyl Acetate	0.0718	0.0100	0.00964	mg/kg wet	0.100		72	25-172			
2,2-Dichloropropane	0.0383	0.00200	0.00154	mg/kg wet	0.0400		96	49-139			
cis-1,2-Dichloroethene	0.0396	0.00200	0.00127	mg/kg wet	0.0400		99	80-117			
2-Butanone (MEK)	0.0891	0.0100	0.00479	mg/kg wet	0.100		89	61-129			
Bromochloromethane	0.0398	0.00200	0.000769	mg/kg wet	0.0400		100	79-119			
Chloroform	0.0386	0.00200	0.000651	mg/kg wet	0.0400		97	74-117			
1,1,1-Trichloroethane	0.0390	0.00200	0.00114	mg/kg wet	0.0400		98	77-121			
Carbon Tetrachloride	0.0393	0.00200	0.00145	mg/kg wet	0.0400		98	72-132			
1,1-Dichloropropene	0.0394	0.00200	0.00152	mg/kg wet	0.0400		99	82-117			
Benzene	0.0396	0.00200	0.00124	mg/kg wet	0.0400		99	81-116			
1,2-Dichloroethane	0.0394	0.00200	0.000863	mg/kg wet	0.0400		99	72-121			
Trichloroethene (TCE)	0.0394	0.00200	0.00128	mg/kg wet	0.0400		99	79-117			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

LCS (B401112-BS1)

Prepared: 17-Jan-14 18:50

Analyzed: 17-Jan-14 18:50

1,2-Dichloropropane	0.0397	0.00200	0.00109	mg/kg wet	0.0400		99	80-114			
Dibromomethane	0.0395	0.00200	0.000685	mg/kg wet	0.0400		99	77-117			
Bromodichloromethane	0.0396	0.00200	0.000547	mg/kg wet	0.0400		99	76-120			
2-Chloroethyl Vinyl Ether	0.0957	0.0100	0.00356	mg/kg wet	0.100		96	56-139			
cis-1,3-Dichloropropene	0.0387	0.00200	0.00101	mg/kg wet	0.0400		97	77-122			
4-Methyl-2-Pentanone (MIBK)	0.0991	0.0200	0.00486	mg/kg wet	0.100		99	66-135			
2-Hexanone	0.0976	0.0200	0.00553	mg/kg wet	0.100		98	63-134			
Toluene	0.0391	0.00200	0.00121	mg/kg wet	0.0400		98	80-114			
trans-1,3-Dichloropropene	0.0381	0.00200	0.00101	mg/kg wet	0.0400		95	69-123			
1,1,2-Trichloroethane	0.0394	0.00200	0.000804	mg/kg wet	0.0400		99	79-113			
Tetrachloroethene (PCE)	0.0394	0.0100	0.000833	mg/kg wet	0.0400		98	57-144			
1,3-Dichloropropane	0.0392	0.00200	0.000802	mg/kg wet	0.0400		98	80-111			
Dibromochloromethane	0.0394	0.0100	0.000515	mg/kg wet	0.0400		99	72-126			
1,2-Dibromoethane (EDB)	0.0388	0.00200	0.000862	mg/kg wet	0.0400		97	78-118			
Chlorobenzene	0.0391	0.00200	0.000960	mg/kg wet	0.0400		98	80-113			
1,1,1,2-Tetrachloroethane	0.0395	0.00200	0.000812	mg/kg wet	0.0400		99	74-127			
Ethylbenzene	0.0406	0.00200	0.00154	mg/kg wet	0.0400		102	80-118			
m- & p-Xylenes	0.0814	0.00500	0.00425	mg/kg wet	0.0800		102	80-121			
o-Xylene	0.0410	0.00200	0.00187	mg/kg wet	0.0400		103	78-124			
Styrene	0.0411	0.00200	0.00156	mg/kg wet	0.0400		103	79-128			
Bromoform	0.0382	0.00200	0.00101	mg/kg wet	0.0400		95	64-127			
Isopropylbenzene (Cumene)	0.0414	0.00200	0.00191	mg/kg wet	0.0400		104	81-124			
Bromobenzene	0.0397	0.00200	0.00106	mg/kg wet	0.0400		99	80-116			
1,1,2,2-Tetrachloroethane	0.0386	0.00200	0.00100	mg/kg wet	0.0400		96	71-115			
1,2,3-Trichloropropane	0.0374	0.00200	0.00164	mg/kg wet	0.0400		94	68-119			
n-Propylbenzene	0.0405	0.00500	0.00182	mg/kg wet	0.0400		101	75-122			
2-Chlorotoluene	0.0398	0.00200	0.00158	mg/kg wet	0.0400		99	77-114			
4-Chlorotoluene	0.0402	0.00200	0.00166	mg/kg wet	0.0400		100	78-116			
1,3,5-Trimethylbenzene	0.0407	0.00200	0.00176	mg/kg wet	0.0400		102	77-123			
tert-Butyl Benzene	0.0408	0.00200	0.00185	mg/kg wet	0.0400		102	73-127			
1,2,4-Trimethylbenzene	0.0408	0.00500	0.00264	mg/kg wet	0.0400		102	76-122			
sec-Butyl Benzene	0.0412	0.00200	0.00181	mg/kg wet	0.0400		103	75-126			
1,3-Dichlorobenzene	0.0392	0.00200	0.00134	mg/kg wet	0.0400		98	78-114			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

LCS (B401112-BS1)					Prepared: 17-Jan-14 18:50		Analyzed: 17-Jan-14 18:50				
p-Isopropyltoluene	0.0399	0.00200	0.00163	mg/kg wet	0.0400		100	76-122			
1,4-Dichlorobenzene	0.0386	0.00200	0.00125	mg/kg wet	0.0400		96	77-110			
1,2-Dichlorobenzene	0.0403	0.00200	0.00140	mg/kg wet	0.0400		101	79-113			
n-Butyl Benzene	0.0410	0.00500	0.00211	mg/kg wet	0.0400		103	77-125			
1,2-Dibromo-3-Chloropropane	0.0385	0.00500	0.00109	mg/kg wet	0.0400		96	50-132			
1,2,4-Trichlorobenzene	0.0396	0.00200	0.00197	mg/kg wet	0.0400		99	68-126			
Naphthalene	0.0411	0.00400	0.00263	mg/kg wet	0.0400		103	64-131			
Hexachlorobutadiene	0.0401	0.00300	0.00182	mg/kg wet	0.0400		100	66-125			
1,2,3-Trichlorobenzene	0.0401	0.00200	0.000181	mg/kg wet	0.0400		100	71-125			

Surrogate: Dibromofluoromethane	50.8			ug/kg	50.0		102	80-120			
Surrogate: 1,2-Dichloroethane-d4	49.9			ug/kg	50.0		100	80-120			
Surrogate: Toluene-d8	50.5			ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	50.9			ug/kg	50.0		102	68-120			

Matrix Spike (B401112-MS1)					Source: 1312115-01		Prepared: 17-Jan-14 21:39		Analyzed: 17-Jan-14 21:39		
Dichlorodifluoromethane	0.0513	0.00255	0.00210	mg/kg dry	0.0511	0.00210 U	101	57-135			
Chloromethane	0.0512	0.00255	0.00187	mg/kg dry	0.0511	0.00187 U	100	63-128			
Vinyl Chloride	0.0501	0.00255	0.00166	mg/kg dry	0.0511	0.00166 U	98	65-134			
Bromomethane	0.0512	0.00638	0.00275	mg/kg dry	0.0511	0.00275 U	100	11-147			
Chloroethane	0.0503	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	98	34-139			
Trichlorofluoromethane	0.0513	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	101	68-129			
1,1-Dichloroethene	0.0504	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	99	65-132			
Acetone	0.0999	0.0638	0.00468	mg/kg dry	0.128	0.00468 U	78	0-311			
Iodomethane (Methyl Iodide)	0.0366	0.0638	0.0145	mg/kg dry	0.0511	0.0145 U	72	35-139			I
Carbon Disulfide	0.0484	0.0128	0.000850	mg/kg dry	0.0511	0.000850 U	95	39-136			
Methylene Chloride	0.0479	0.0255	0.0188	mg/kg dry	0.0511	0.0188 U	94	38-160			
trans-1,2-Dichloroethene	0.0510	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	100	72-125			
Methyl tert-Butyl Ether (MTBE)	0.0472	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	92	68-123			
1,1-Dichloroethane	0.0506	0.00255	0.00135	mg/kg dry	0.0511	0.00135 U	99	74-121			
Vinyl Acetate	0.0437	0.0128	0.0123	mg/kg dry	0.128	0.0123 U	34	0-187			
2,2-Dichloropropane	0.0495	0.00255	0.00196	mg/kg dry	0.0511	0.00196 U	97	42-130			
cis-1,2-Dichloroethene	0.0511	0.00255	0.00163	mg/kg dry	0.0511	0.00163 U	100	76-121			
2-Butanone (MEK)	0.101	0.0128	0.00611	mg/kg dry	0.128	0.00611 U	79	22-151			
Bromochloromethane	0.0483	0.00255	0.000982	mg/kg dry	0.0511	0.000982 U	95	75-121			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike (B401112-MS1)	Source: 1312115-01			Prepared: 17-Jan-14 21:39			Analyzed: 17-Jan-14 21:39				
Chloroform	0.0496	0.00255	0.000831	mg/kg dry	0.0511	0.000831 U	97	73-117			
1,1,1-Trichloroethane	0.0507	0.00255	0.00146	mg/kg dry	0.0511	0.00146 U	99	72-123			
Carbon Tetrachloride	0.0508	0.00255	0.00185	mg/kg dry	0.0511	0.00185 U	99	62-131			
1,1-Dichloropropene	0.0510	0.00255	0.00193	mg/kg dry	0.0511	0.00193 U	100	69-130			
Benzene	0.0510	0.00255	0.00158	mg/kg dry	0.0511	0.00158 U	100	70-123			
1,2-Dichloroethane	0.0492	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	96	69-119			
Trichloroethene (TCE)	0.0507	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	99	64-133			
1,2-Dichloropropane	0.0501	0.00255	0.00139	mg/kg dry	0.0511	0.00139 U	98	71-122			
Dibromomethane	0.0483	0.00255	0.000874	mg/kg dry	0.0511	0.000874 U	95	68-121			
Bromodichloromethane	0.0503	0.00255	0.000698	mg/kg dry	0.0511	0.000698 U	98	67-122			
2-Chloroethyl Vinyl Ether	0.0992	0.0128	0.00455	mg/kg dry	0.128	0.00455 U	78	12-174			
cis-1,3-Dichloropropene	0.0489	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	96	56-130			
4-Methyl-2-Pentanone (MIBK)	0.111	0.0255	0.00621	mg/kg dry	0.128	0.00621 U	87	44-141			
2-Hexanone	0.109	0.0255	0.00706	mg/kg dry	0.128	0.00706 U	85	32-140			
Toluene	0.0515	0.00255	0.00154	mg/kg dry	0.0511	0.00154 U	101	64-126			
trans-1,3-Dichloropropene	0.0477	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	93	53-125			
1,1,2-Trichloroethane	0.0503	0.00255	0.00103	mg/kg dry	0.0511	0.00103 U	98	72-117			
Tetrachloroethene (PCE)	0.0528	0.0128	0.00106	mg/kg dry	0.0511	0.00106 U	103	28-183			
1,3-Dichloropropane	0.0489	0.00255	0.00102	mg/kg dry	0.0511	0.00102 U	96	72-117			
Dibromochloromethane	0.0498	0.0128	0.000657	mg/kg dry	0.0511	0.000657 U	98	57-130			
1,2-Dibromoethane (EDB)	0.0487	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	95	67-123			
Chlorobenzene	0.0510	0.00255	0.00123	mg/kg dry	0.0511	0.00123 U	100	64-124			
1,1,1,2-Tetrachloroethane	0.0515	0.00255	0.00104	mg/kg dry	0.0511	0.00104 U	101	59-132			
Ethylbenzene	0.0530	0.00255	0.00197	mg/kg dry	0.0511	0.00197 U	104	52-136			
m- & p-Xylenes	0.106	0.00638	0.00543	mg/kg dry	0.102	0.00543 U	104	51-137			
o-Xylene	0.0541	0.00255	0.00239	mg/kg dry	0.0511	0.00239 U	106	52-138			
Styrene	0.0529	0.00255	0.00199	mg/kg dry	0.0511	0.00199 U	104	42-143			
Bromoform	0.0472	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	92	42-130			
Isopropylbenzene (Cumene)	0.0539	0.00255	0.00243	mg/kg dry	0.0511	0.00243 U	106	40-149			
Bromobenzene	0.0505	0.00255	0.00136	mg/kg dry	0.0511	0.00136 U	99	50-136			
1,1,2,2-Tetrachloroethane	0.0458	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	90	46-142			
1,2,3-Trichloropropane	0.0478	0.00255	0.00209	mg/kg dry	0.0511	0.00209 U	94	54-136			
n-Propylbenzene	0.0522	0.00638	0.00233	mg/kg dry	0.0511	0.00233 U	102	35-161			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike (B401112-MS1)	Source: 1312115-01			Prepared: 17-Jan-14 21:39			Analyzed: 17-Jan-14 21:39				
2-Chlorotoluene	0.0513	0.00255	0.00202	mg/kg dry	0.0511	0.00202 U	100	57-137			
4-Chlorotoluene	0.0520	0.00255	0.00211	mg/kg dry	0.0511	0.00211 U	102	53-141			
1,3,5-Trimethylbenzene	0.0528	0.00255	0.00225	mg/kg dry	0.0511	0.00225 U	103	36-156			
tert-Butyl Benzene	0.0520	0.00255	0.00236	mg/kg dry	0.0511	0.00236 U	102	41-149			
1,2,4-Trimethylbenzene	0.0526	0.00638	0.00337	mg/kg dry	0.0511	0.00337 U	103	30-161			
sec-Butyl Benzene	0.0533	0.00255	0.00231	mg/kg dry	0.0511	0.00231 U	104	33-153			
1,3-Dichlorobenzene	0.0498	0.00255	0.00171	mg/kg dry	0.0511	0.00171 U	97	47-135			
p-Isopropyltoluene	0.0515	0.00255	0.00208	mg/kg dry	0.0511	0.00208 U	101	32-147			
1,4-Dichlorobenzene	0.0490	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	96	46-131			
1,2-Dichlorobenzene	0.0503	0.00255	0.00179	mg/kg dry	0.0511	0.00179 U	99	44-135			
n-Butyl Benzene	0.0527	0.00638	0.00269	mg/kg dry	0.0511	0.00269 U	103	10-165			
1,2-Dibromo-3-Chloropropane	0.0441	0.00638	0.00139	mg/kg dry	0.0511	0.00139 U	86	27-145			
1,2,4-Trichlorobenzene	0.0484	0.00255	0.00251	mg/kg dry	0.0511	0.00251 U	95	0-170			
Naphthalene	0.0478	0.00511	0.00335	mg/kg dry	0.0511	0.00335 U	94	0-157			
Hexachlorobutadiene	0.0506	0.00383	0.00232	mg/kg dry	0.0511	0.00232 U	99	0-173			
1,2,3-Trichlorobenzene	0.0492	0.00255	0.000231	mg/kg dry	0.0511	0.000231 U	96	0-169			

Surrogate: Dibromofluoromethane	49.9			ug/kg	50.0		100	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.2			ug/kg	50.0		96	80-120			
Surrogate: Toluene-d8	51.1			ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/kg	50.0		101	68-120			

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Dichlorodifluoromethane	0.0485	0.00255	0.00210	mg/kg dry	0.0511	0.00210 U	95	57-135	6	23	
Chloromethane	0.0483	0.00255	0.00187	mg/kg dry	0.0511	0.00187 U	95	63-128	6	20	
Vinyl Chloride	0.0481	0.00255	0.00166	mg/kg dry	0.0511	0.00166 U	94	65-134	4	20	
Bromomethane	0.0469	0.00638	0.00275	mg/kg dry	0.0511	0.00275 U	92	11-147	9	20	
Chloroethane	0.0477	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	94	34-139	5	20	
Trichlorofluoromethane	0.0493	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	97	68-129	4	20	
1,1-Dichloroethene	0.0488	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	96	65-132	3	22	
Acetone	0.100	0.0638	0.00468	mg/kg dry	0.128	0.00468 U	78	0-311	0.2	21	
Iodomethane (Methyl Iodide)	0.0478	0.0638	0.0145	mg/kg dry	0.0511	0.0145 U	94	35-139	27	30	I
Carbon Disulfide	0.0461	0.0128	0.000850	mg/kg dry	0.0511	0.000850 U	90	39-136	5	20	
Methylene Chloride	0.0432	0.0255	0.0188	mg/kg dry	0.0511	0.0188 U	85	38-160	10	35	
trans-1,2-Dichloroethene	0.0488	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	96	72-125	4	20	



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Methyl tert-Butyl Ether (MTBE)	0.0470	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	92	68-123	0.4	20	
1,1-Dichloroethane	0.0484	0.00255	0.00135	mg/kg dry	0.0511	0.00135 U	95	74-121	5	20	
Vinyl Acetate	0.0471	0.0128	0.0123	mg/kg dry	0.128	0.0123 U	37	0-187	7	30	
2,2-Dichloropropane	0.0482	0.00255	0.00196	mg/kg dry	0.0511	0.00196 U	94	42-130	3	20	
cis-1,2-Dichloroethene	0.0484	0.00255	0.00163	mg/kg dry	0.0511	0.00163 U	95	76-121	6	20	
2-Butanone (MEK)	0.101	0.0128	0.00611	mg/kg dry	0.128	0.00611 U	79	22-151	0.6	20	
Bromochloromethane	0.0475	0.00255	0.000982	mg/kg dry	0.0511	0.000982 U	93	75-121	2	20	
Chloroform	0.0479	0.00255	0.000831	mg/kg dry	0.0511	0.000831 U	94	73-117	4	20	
1,1,1-Trichloroethane	0.0489	0.00255	0.00146	mg/kg dry	0.0511	0.00146 U	96	72-123	4	20	
Carbon Tetrachloride	0.0490	0.00255	0.00185	mg/kg dry	0.0511	0.00185 U	96	62-131	4	20	
1,1-Dichloropropene	0.0492	0.00255	0.00193	mg/kg dry	0.0511	0.00193 U	96	69-130	4	20	
Benzene	0.0491	0.00255	0.00158	mg/kg dry	0.0511	0.00158 U	96	70-123	4	21	
1,2-Dichloroethane	0.0475	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	93	69-119	4	20	
Trichloroethene (TCE)	0.0482	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	94	64-133	5	24	
1,2-Dichloropropane	0.0483	0.00255	0.00139	mg/kg dry	0.0511	0.00139 U	95	71-122	4	20	
Dibromomethane	0.0476	0.00255	0.000874	mg/kg dry	0.0511	0.000874 U	93	68-121	1	23	
Bromodichloromethane	0.0483	0.00255	0.000698	mg/kg dry	0.0511	0.000698 U	95	67-122	4	20	
2-Chloroethyl Vinyl Ether	0.108	0.0128	0.00455	mg/kg dry	0.128	0.00455 U	85	12-174	9	30	
cis-1,3-Dichloropropene	0.0478	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	94	56-130	2	20	
4-Methyl-2-Pentanone (MIBK)	0.112	0.0255	0.00621	mg/kg dry	0.128	0.00621 U	88	44-141	1	25	
2-Hexanone	0.108	0.0255	0.00706	mg/kg dry	0.128	0.00706 U	85	32-140	0.1	21	
Toluene	0.0486	0.00255	0.00154	mg/kg dry	0.0511	0.00154 U	95	64-126	6	21	
trans-1,3-Dichloropropene	0.0467	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	92	53-125	2	20	
1,1,2-Trichloroethane	0.0482	0.00255	0.00103	mg/kg dry	0.0511	0.00103 U	94	72-117	4	20	
Tetrachloroethene (PCE)	0.0496	0.0128	0.00106	mg/kg dry	0.0511	0.00106 U	97	28-183	6	20	
1,3-Dichloropropane	0.0477	0.00255	0.00102	mg/kg dry	0.0511	0.00102 U	93	72-117	3	20	
Dibromochloromethane	0.0484	0.0128	0.000657	mg/kg dry	0.0511	0.000657 U	95	57-130	3	20	
1,2-Dibromoethane (EDB)	0.0457	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	90	67-123	6	20	
Chlorobenzene	0.0487	0.00255	0.00123	mg/kg dry	0.0511	0.00123 U	95	64-124	5	21	
1,1,1,2-Tetrachloroethane	0.0488	0.00255	0.00104	mg/kg dry	0.0511	0.00104 U	96	59-132	5	20	
Ethylbenzene	0.0503	0.00255	0.00197	mg/kg dry	0.0511	0.00197 U	99	52-136	5	20	
m- & p-Xylenes	0.101	0.00638	0.00543	mg/kg dry	0.102	0.00543 U	99	51-137	5	20	
o-Xylene	0.0505	0.00255	0.00239	mg/kg dry	0.0511	0.00239 U	99	52-138	7	20	



NELAP Certificate No. E84880



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Styrene	0.0506	0.00255	0.00199	mg/kg dry	0.0511	0.00199 U	99	42-143	5	20	
Bromoform	0.0456	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	89	42-130	3	20	
Isopropylbenzene (Cumene)	0.0511	0.00255	0.00243	mg/kg dry	0.0511	0.00243 U	100	40-149	5	20	
Bromobenzene	0.0488	0.00255	0.00136	mg/kg dry	0.0511	0.00136 U	96	50-136	3	20	
1,1,2,2-Tetrachloroethane	0.0442	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	87	46-142	3	31	
1,2,3-Trichloropropane	0.0450	0.00255	0.00209	mg/kg dry	0.0511	0.00209 U	88	54-136	6	20	
n-Propylbenzene	0.0500	0.00638	0.00233	mg/kg dry	0.0511	0.00233 U	98	35-161	4	20	
2-Chlorotoluene	0.0497	0.00255	0.00202	mg/kg dry	0.0511	0.00202 U	97	57-137	3	20	
4-Chlorotoluene	0.0500	0.00255	0.00211	mg/kg dry	0.0511	0.00211 U	98	53-141	4	20	
1,3,5-Trimethylbenzene	0.0503	0.00255	0.00225	mg/kg dry	0.0511	0.00225 U	98	36-156	5	20	
tert-Butyl Benzene	0.0503	0.00255	0.00236	mg/kg dry	0.0511	0.00236 U	98	41-149	3	20	
1,2,4-Trimethylbenzene	0.0503	0.00638	0.00337	mg/kg dry	0.0511	0.00337 U	99	30-161	4	20	
sec-Butyl Benzene	0.0507	0.00255	0.00231	mg/kg dry	0.0511	0.00231 U	99	33-153	5	20	
1,3-Dichlorobenzene	0.0482	0.00255	0.00171	mg/kg dry	0.0511	0.00171 U	94	47-135	3	20	
p-Isopropyltoluene	0.0493	0.00255	0.00208	mg/kg dry	0.0511	0.00208 U	97	32-147	4	20	
1,4-Dichlorobenzene	0.0472	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	93	46-131	4	20	
1,2-Dichlorobenzene	0.0488	0.00255	0.00179	mg/kg dry	0.0511	0.00179 U	96	44-135	3	20	
n-Butyl Benzene	0.0502	0.00638	0.00269	mg/kg dry	0.0511	0.00269 U	98	10-165	5	20	
1,2-Dibromo-3-Chloropropane	0.0434	0.00638	0.00139	mg/kg dry	0.0511	0.00139 U	85	27-145	2	28	
1,2,4-Trichlorobenzene	0.0467	0.00255	0.00251	mg/kg dry	0.0511	0.00251 U	92	0-170	3	20	
Naphthalene	0.0469	0.00511	0.00335	mg/kg dry	0.0511	0.00335 U	92	0-157	2	20	
Hexachlorobutadiene	0.0472	0.00383	0.00232	mg/kg dry	0.0511	0.00232 U	92	0-173	7	20	
1,2,3-Trichlorobenzene	0.0467	0.00255	0.000231	mg/kg dry	0.0511	0.000231 U	91	0-169	5	20	
Surrogate: Dibromofluoromethane	50.0			ug/kg	50.0		100	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.7			ug/kg	50.0		97	80-120			
Surrogate: Toluene-d8	50.7			ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	49.9			ug/kg	50.0		100	68-120			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L							
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L							
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L							
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L							
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L							
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L							
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L							
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L							
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L							
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L							
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L							
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L							
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L							
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L							
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L							
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L							
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L							
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L							
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L							
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L							
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L							
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L							
2-Hexanone	4.00 U	20.0	4.00	ug/L							
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L							
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L							
Acetone	5.00 U	10.0	5.00	ug/L							
Benzene	0.450 U	1.00	0.450	ug/L							
Bromobenzene	0.410 U	2.00	0.410	ug/L							
Bromochloromethane	0.500 U	5.00	0.500	ug/L							
Bromodichloromethane	0.540 U	0.600	0.540	ug/L							
Bromoform	0.650 U	2.00	0.650	ug/L							



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	RPD Limit	Qualifiers	

Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Bromomethane	2.00 U	5.00	2.00	ug/L							
Carbon Disulfide	0.800 U	2.00	0.800	ug/L							
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L							
Chlorobenzene	0.560 U	2.00	0.560	ug/L							
Chloroethane	1.17 U	2.00	1.17	ug/L							
Chloroform	1.00 U	2.00	1.00	ug/L							
Chloromethane	0.560 U	2.00	0.560	ug/L							
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L							
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L							
Dibromochloromethane	0.710 U	2.00	0.710	ug/L							
Dibromomethane	0.250 U	2.00	0.250	ug/L							
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L							
Ethylbenzene	0.500 U	2.00	0.500	ug/L							
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L							
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L							
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L							
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L							
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L							
Methylene Chloride	2.50 U	5.00	2.50	ug/L							
Naphthalene	1.36 U	5.00	1.36	ug/L							
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L							
n-Propylbenzene	0.630 U	2.00	0.630	ug/L							
o-Xylene	0.660 U	2.00	0.660	ug/L							
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L							
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L							
Styrene	0.640 U	2.00	0.640	ug/L							
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L							
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L							
Toluene	0.580 U	2.00	0.580	ug/L							
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L							
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L							
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L							
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L							



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	50.6			ug/L	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	51.6			ug/L	50.0		103	80-120			
Surrogate: Dibromofluoromethane	49.9			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
1,1,1,2-Tetrachloroethane	39.4	1.30	0.700	ug/L	40.0		98	72-124			
1,1,1-Trichloroethane	42.8	2.00	0.600	ug/L	40.0		107	76-122			
1,1,2,2-Tetrachloroethane	39.8	0.500	0.410	ug/L	40.0		100	71-112			
1,1,2-Trichloroethane	39.4	2.00	0.330	ug/L	40.0		99	79-110			
1,1-Dichloroethane	41.4	2.00	0.250	ug/L	40.0		104	80-112			
1,1-Dichloroethene	41.0	2.00	1.14	ug/L	40.0		103	74-122			
1,1-Dichloropropene	43.4	2.00	0.800	ug/L	40.0		108	83-116			
1,2,3-Trichlorobenzene	41.5	2.00	0.720	ug/L	40.0		104	76-116			
1,2,3-Trichloropropane	39.3	0.500	0.320	ug/L	40.0		98	71-115			
1,2,4-Trichlorobenzene	41.1	2.00	0.760	ug/L	40.0		103	73-118			
1,2,4-Trimethylbenzene	44.3	2.00	0.690	ug/L	40.0		111	80-119			
1,2-Dibromo-3-Chloropropane	38.8	2.00	1.05	ug/L	40.0		97	43-135			
1,2-Dibromoethane (EDB)	39.4	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	41.2	2.00	0.470	ug/L	40.0		103	80-110			
1,2-Dichloroethane	39.2	2.00	0.380	ug/L	40.0		98	73-116			
1,2-Dichloropropane	40.6	2.00	0.410	ug/L	40.0		101	78-113			
1,3,5-Trimethylbenzene	44.1	2.00	0.640	ug/L	40.0		110	80-118			
1,3-Dichlorobenzene	41.2	2.00	0.490	ug/L	40.0		103	80-110			
1,3-Dichloropropane	39.4	4.00	0.300	ug/L	40.0		98	80-109			
1,4-Dichlorobenzene	40.1	2.00	0.490	ug/L	40.0		100	78-107			
2,2-Dichloropropane	47.2	7.00	0.770	ug/L	40.0		118	51-138			
2-Butanone (MEK)	88.4	20.0	5.00	ug/L	100		88	57-129			
2-Chloroethyl Vinyl Ether	91.8	5.00	1.61	ug/L	100		92	45-145			
2-Chlorotoluene	42.1	2.00	0.450	ug/L	40.0		105	78-113			
2-Hexanone	102	20.0	4.00	ug/L	100		102	58-135			
4-Chlorotoluene	42.6	2.00	0.500	ug/L	40.0		107	79-115			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1) Prepared: 18-Jan-14 08:48 Analyzed: 18-Jan-14 08:48

4-Methyl-2-Pentanone (MIBK)	98.4	20.0	4.00	ug/L	100	98	65-135			
Acetone	104	10.0	5.00	ug/L	100	104	55-127			
Benzene	41.7	1.00	0.450	ug/L	40.0	104	82-113			
Bromobenzene	40.5	2.00	0.410	ug/L	40.0	101	80-114			
Bromochloromethane	39.5	5.00	0.500	ug/L	40.0	99	81-115			
Bromodichloromethane	40.7	0.600	0.540	ug/L	40.0	102	76-117			
Bromoform	38.6	2.00	0.650	ug/L	40.0	97	64-126			
Bromomethane	42.2	5.00	2.00	ug/L	40.0	105	40-138			
Carbon Disulfide	41.7	2.00	0.800	ug/L	40.0	104	78-116			
Carbon Tetrachloride	43.7	2.00	0.700	ug/L	40.0	109	74-129			
Chlorobenzene	40.7	2.00	0.560	ug/L	40.0	102	79-112			
Chloroethane	39.8	2.00	1.17	ug/L	40.0	100	70-116			
Chloroform	39.4	2.00	1.00	ug/L	40.0	99	72-115			
Chloromethane	41.0	2.00	0.560	ug/L	40.0	102	71-117			
cis-1,2-Dichloroethene	41.0	5.00	0.500	ug/L	40.0	102	83-112			
cis-1,3-Dichloropropene	41.6	0.500	0.260	ug/L	40.0	104	78-120			
Dibromochloromethane	40.6	2.00	0.710	ug/L	40.0	102	72-122			
Dibromomethane	39.1	2.00	0.250	ug/L	40.0	98	77-115			
Dichlorodifluoromethane	42.8	2.00	0.930	ug/L	40.0	107	63-129			
Ethylbenzene	43.4	2.00	0.500	ug/L	40.0	109	82-116			
Hexachlorobutadiene	39.1	3.00	2.00	ug/L	40.0	98	68-117			
Iodomethane (Methyl Iodide)	29.9	20.0	12.2	ug/L	40.0	75	30-127			
Isopropylbenzene (Cumene)	44.9	2.00	0.760	ug/L	40.0	112	80-122			
m- & p-Xylenes	87.7	4.00	1.23	ug/L	80.0	110	81-120			
Methyl tert-Butyl Ether (MTBE)	39.4	3.00	0.250	ug/L	40.0	98	71-115			
Methylene Chloride	35.4	5.00	2.50	ug/L	40.0	89	73-119			
Naphthalene	41.5	5.00	1.36	ug/L	40.0	104	67-117			
n-Butyl Benzene	44.9	2.00	1.10	ug/L	40.0	112	78-121			
n-Propylbenzene	44.1	2.00	0.630	ug/L	40.0	110	79-117			
o-Xylene	43.4	2.00	0.660	ug/L	40.0	109	80-119			
p-Isopropyltoluene	43.7	2.00	0.780	ug/L	40.0	109	78-117			
sec-Butyl Benzene	44.6	2.00	0.800	ug/L	40.0	112	79-119			
Styrene	43.5	2.00	0.640	ug/L	40.0	109	83-121			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
tert-Butyl Benzene	45.0	2.00	0.690	ug/L	40.0		112	76-119			
Tetrachloroethene (PCE)	38.2	2.00	1.50	ug/L	40.0		96	62-140			
Toluene	41.9	2.00	0.580	ug/L	40.0		105	80-112			
trans-1,2-Dichloroethene	41.1	2.00	0.500	ug/L	40.0		103	81-114			
trans-1,3-Dichloropropene	40.6	2.00	0.450	ug/L	40.0		102	70-119			
Trichloroethene (TCE)	41.8	2.00	0.740	ug/L	40.0		105	80-115			
Trichlorofluoromethane	42.7	2.00	1.10	ug/L	40.0		107	66-135			
Vinyl Acetate	106	2.00	1.63	ug/L	100		106	56-135			
Vinyl Chloride	42.4	1.00	0.970	ug/L	40.0		106	72-122			

Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	49.6			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	50.3			ug/L	50.0		101	80-120			

Matrix Spike (B401113-MS1)					Source: 1312093-01		Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05		
1,1,1,2-Tetrachloroethane	363	13.0	7.00	ug/L	400	7.00 U	91	72-132			
1,1,1-Trichloroethane	386	20.0	6.00	ug/L	400	6.00 U	96	76-133			
1,1,2,2-Tetrachloroethane	371	5.00	4.10	ug/L	400	4.10 U	93	64-121			
1,1,2-Trichloroethane	365	20.0	3.30	ug/L	400	3.30 U	91	79-113			
1,1-Dichloroethane	377	20.0	2.50	ug/L	400	2.50 U	94	81-121			
1,1-Dichloroethene	369	20.0	11.4	ug/L	400	11.4 U	92	76-131			
1,1-Dichloropropene	384	20.0	8.00	ug/L	400	8.00 U	96	85-125			
1,2,3-Trichlorobenzene	375	20.0	7.20	ug/L	400	7.20 U	94	74-126			
1,2,3-Trichloropropane	356	5.00	3.20	ug/L	400	3.20 U	89	66-118			
1,2,4-Trichlorobenzene	374	20.0	7.60	ug/L	400	7.60 U	94	70-131			
1,2,4-Trimethylbenzene	401	20.0	6.90	ug/L	400	6.90 U	100	73-135			
1,2-Dibromo-3-Chloropropane	345	20.0	10.5	ug/L	400	10.5 U	86	36-143			
1,2-Dibromoethane (EDB)	364	20.0	2.90	ug/L	400	2.90 U	91	76-120			
1,2-Dichlorobenzene	375	20.0	4.70	ug/L	400	4.70 U	94	79-117			
1,2-Dichloroethane	360	20.0	3.80	ug/L	400	3.80 U	90	72-123			
1,2-Dichloropropane	370	20.0	4.10	ug/L	400	4.10 U	92	78-122			
1,3,5-Trimethylbenzene	400	20.0	6.40	ug/L	400	6.40 U	100	77-132			
1,3-Dichlorobenzene	381	20.0	4.90	ug/L	400	4.90 U	95	81-117			
1,3-Dichloropropane	363	40.0	3.00	ug/L	400	3.00 U	91	79-114			



NELAP Certificate No. E84880



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01				Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05			
1,4-Dichlorobenzene	364	20.0	4.90	ug/L	400	4.90 U	91	78-113			
2,2-Dichloropropane	390	70.0	7.70	ug/L	400	7.70 U	97	44-138			
2-Butanone (MEK)	787	200	50.0	ug/L	1000	50.0 U	79	48-136			
2-Chloroethyl Vinyl Ether	806	50.0	16.1	ug/L	1000	16.1 U	81	34-152			
2-Chlorotoluene	386	20.0	4.50	ug/L	400	4.50 U	96	71-132			
2-Hexanone	902	200	40.0	ug/L	1000	40.0 U	90	52-144			
4-Chlorotoluene	388	20.0	5.00	ug/L	400	5.00 U	97	77-125			
4-Methyl-2-Pentanone (MIBK)	902	200	40.0	ug/L	1000	40.0 U	90	64-141			
Acetone	895	100	50.0	ug/L	1000	50.0 U	89	48-133			
Benzene	381	10.0	4.50	ug/L	400	4.50 U	95	70-135			
Bromobenzene	371	20.0	4.10	ug/L	400	4.10 U	93	82-119			
Bromochloromethane	365	50.0	5.00	ug/L	400	5.00 U	91	82-121			
Bromodichloromethane	377	6.00	5.40	ug/L	400	5.40 U	94	75-126			
Bromoform	355	20.0	6.50	ug/L	400	6.50 U	89	63-129			
Bromomethane	160	50.0	20.0	ug/L	400	20.0 U	40	26-152			
Carbon Disulfide	391	20.0	8.00	ug/L	400	8.00 U	98	68-140			
Carbon Tetrachloride	392	20.0	7.00	ug/L	400	7.00 U	98	72-144			
Chlorobenzene	377	20.0	5.60	ug/L	400	5.60 U	94	82-116			
Chloroethane	363	20.0	11.7	ug/L	400	11.7 U	91	74-123			
Chloroform	367	20.0	10.0	ug/L	400	10.0 U	92	74-121			
Chloromethane	302	20.0	5.60	ug/L	400	5.60 U	76	70-125			
cis-1,2-Dichloroethene	373	50.0	5.00	ug/L	400	5.00 U	93	84-121			
cis-1,3-Dichloropropene	344	5.00	2.60	ug/L	400	2.60 U	86	73-127			
Dibromochloromethane	376	20.0	7.10	ug/L	400	7.10 U	94	71-129			
Dibromomethane	366	20.0	2.50	ug/L	400	2.50 U	92	76-120			
Dichlorodifluoromethane	388	20.0	9.30	ug/L	400	9.30 U	97	65-139			
Ethylbenzene	395	20.0	5.00	ug/L	400	5.00 U	99	74-134			
Hexachlorobutadiene	365	30.0	20.0	ug/L	400	20.0 U	91	68-123			
Iodomethane (Methyl Iodide)	133	200	122	ug/L	400	122 U	33	21-145			I
Isopropylbenzene (Cumene)	404	20.0	7.60	ug/L	400	7.60 U	101	76-136			
m- & p-Xylenes	796	40.0	12.3	ug/L	800	12.3 U	99	77-131			
Methyl tert-Butyl Ether (MTBE)	358	30.0	2.50	ug/L	400	2.50 U	89	64-123			
Methylene Chloride	321	50.0	25.0	ug/L	400	25.0 U	80	73-124			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
---------	--------	-----	-----	-------	-------------	---------------	------	-------------	-----	-----------	------------

Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01			Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05				
Naphthalene	381	50.0	13.6	ug/L	400	13.6 U	95	55-137			
n-Butyl Benzene	402	20.0	11.0	ug/L	400	11.0 U	101	68-139			
n-Propylbenzene	398	20.0	6.30	ug/L	400	6.30 U	100	69-135			
o-Xylene	391	20.0	6.60	ug/L	400	6.60 U	98	78-132			
p-Isopropyltoluene	393	20.0	7.80	ug/L	400	7.80 U	98	77-127			
sec-Butyl Benzene	403	20.0	8.00	ug/L	400	8.00 U	101	75-131			
Styrene	380	20.0	6.40	ug/L	400	6.40 U	95	80-134			
tert-Butyl Benzene	412	20.0	6.90	ug/L	400	6.90 U	103	78-132			
Tetrachloroethene (PCE)	328	20.0	15.0	ug/L	400	15.0 U	82	54-144			
Toluene	381	20.0	5.80	ug/L	400	5.80 U	95	82-120			
trans-1,2-Dichloroethene	375	20.0	5.00	ug/L	400	5.00 U	94	85-121			
trans-1,3-Dichloropropene	341	20.0	4.50	ug/L	400	4.50 U	85	62-126			
Trichloroethene (TCE)	377	20.0	7.40	ug/L	400	7.40 U	94	80-127			
Trichlorofluoromethane	387	20.0	11.0	ug/L	400	11.0 U	97	72-143			
Vinyl Acetate	987	20.0	16.3	ug/L	1000	16.3 U	99	46-145			
Vinyl Chloride	341	10.0	9.70	ug/L	400	9.70 U	85	75-131			

Surrogate: 1,2-Dichloroethane-d4	49.2			ug/L	50.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	50.1			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.8			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
1,1,1,2-Tetrachloroethane	396	13.0	7.00	ug/L	400	7.00 U	99	72-132	9	20	
1,1,1-Trichloroethane	425	20.0	6.00	ug/L	400	6.00 U	106	76-133	10	20	
1,1,2,2-Tetrachloroethane	405	5.00	4.10	ug/L	400	4.10 U	101	64-121	9	20	
1,1,2-Trichloroethane	389	20.0	3.30	ug/L	400	3.30 U	97	79-113	6	20	
1,1-Dichloroethane	413	20.0	2.50	ug/L	400	2.50 U	103	81-121	9	20	
1,1-Dichloroethene	402	20.0	11.4	ug/L	400	11.4 U	101	76-131	9	20	
1,1-Dichloropropene	415	20.0	8.00	ug/L	400	8.00 U	104	85-125	8	20	
1,2,3-Trichlorobenzene	423	20.0	7.20	ug/L	400	7.20 U	106	74-126	12	20	
1,2,3-Trichloropropane	398	5.00	3.20	ug/L	400	3.20 U	100	66-118	11	20	
1,2,4-Trichlorobenzene	416	20.0	7.60	ug/L	400	7.60 U	104	70-131	11	20	
1,2,4-Trimethylbenzene	442	20.0	6.90	ug/L	400	6.90 U	110	73-135	10	20	
1,2-Dibromo-3-Chloropropane	388	20.0	10.5	ug/L	400	10.5 U	97	36-143	12	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
1,2-Dibromoethane (EDB)	398	20.0	2.90	ug/L	400	2.90 U	99	76-120	9	20	
1,2-Dichlorobenzene	415	20.0	4.70	ug/L	400	4.70 U	104	79-117	10	20	
1,2-Dichloroethane	387	20.0	3.80	ug/L	400	3.80 U	97	72-123	7	20	
1,2-Dichloropropane	396	20.0	4.10	ug/L	400	4.10 U	99	78-122	7	20	
1,3,5-Trimethylbenzene	440	20.0	6.40	ug/L	400	6.40 U	110	77-132	10	20	
1,3-Dichlorobenzene	412	20.0	4.90	ug/L	400	4.90 U	103	81-117	8	20	
1,3-Dichloropropane	391	40.0	3.00	ug/L	400	3.00 U	98	79-114	8	20	
1,4-Dichlorobenzene	399	20.0	4.90	ug/L	400	4.90 U	100	78-113	9	20	
2,2-Dichloropropane	430	70.0	7.70	ug/L	400	7.70 U	107	44-138	10	20	
2-Butanone (MEK)	890	200	50.0	ug/L	1000	50.0 U	89	48-136	12	20	
2-Chloroethyl Vinyl Ether	839	50.0	16.1	ug/L	1000	16.1 U	84	34-152	4	30	
2-Chlorotoluene	426	20.0	4.50	ug/L	400	4.50 U	107	71-132	10	20	
2-Hexanone	1000	200	40.0	ug/L	1000	40.0 U	100	52-144	11	20	
4-Chlorotoluene	427	20.0	5.00	ug/L	400	5.00 U	107	77-125	9	20	
4-Methyl-2-Pentanone (MIBK)	1020	200	40.0	ug/L	1000	40.0 U	102	64-141	12	20	
Acetone	1020	100	50.0	ug/L	1000	50.0 U	102	48-133	13	20	
Benzene	417	10.0	4.50	ug/L	400	4.50 U	104	70-135	9	20	
Bromobenzene	410	20.0	4.10	ug/L	400	4.10 U	103	82-119	10	20	
Bromochloromethane	385	50.0	5.00	ug/L	400	5.00 U	96	82-121	5	20	
Bromodichloromethane	409	6.00	5.40	ug/L	400	5.40 U	102	75-126	8	20	
Bromoform	386	20.0	6.50	ug/L	400	6.50 U	96	63-129	8	20	
Bromomethane	213	50.0	20.0	ug/L	400	20.0 U	53	26-152	28	20	J2
Carbon Disulfide	431	20.0	8.00	ug/L	400	8.00 U	108	68-140	10	20	
Carbon Tetrachloride	430	20.0	7.00	ug/L	400	7.00 U	107	72-144	9	20	
Chlorobenzene	411	20.0	5.60	ug/L	400	5.60 U	103	82-116	9	20	
Chloroethane	393	20.0	11.7	ug/L	400	11.7 U	98	74-123	8	20	
Chloroform	399	20.0	10.0	ug/L	400	10.0 U	100	74-121	8	20	
Chloromethane	331	20.0	5.60	ug/L	400	5.60 U	83	70-125	9	20	
cis-1,2-Dichloroethene	406	50.0	5.00	ug/L	400	5.00 U	101	84-121	8	20	
cis-1,3-Dichloropropene	376	5.00	2.60	ug/L	400	2.60 U	94	73-127	9	20	
Dibromochloromethane	407	20.0	7.10	ug/L	400	7.10 U	102	71-129	8	20	
Dibromomethane	393	20.0	2.50	ug/L	400	2.50 U	98	76-120	7	20	
Dichlorodifluoromethane	422	20.0	9.30	ug/L	400	9.30 U	106	65-139	9	20	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
Ethylbenzene	430	20.0	5.00	ug/L	400	5.00 U	107	74-134	8	20	J2
Hexachlorobutadiene	402	30.0	20.0	ug/L	400	20.0 U	100	68-123	10	20	
Iodomethane (Methyl Iodide)	236	200	122	ug/L	400	122 U	59	21-145	56	30	
Isopropylbenzene (Cumene)	447	20.0	7.60	ug/L	400	7.60 U	112	76-136	10	20	
m- & p-Xylenes	871	40.0	12.3	ug/L	800	12.3 U	109	77-131	9	20	
Methyl tert-Butyl Ether (MTBE)	395	30.0	2.50	ug/L	400	2.50 U	99	64-123	10	20	
Methylene Chloride	353	50.0	25.0	ug/L	400	25.0 U	88	73-124	9	20	
Naphthalene	436	50.0	13.6	ug/L	400	13.6 U	109	55-137	14	20	
n-Butyl Benzene	438	20.0	11.0	ug/L	400	11.0 U	109	68-139	8	20	
n-Propylbenzene	436	20.0	6.30	ug/L	400	6.30 U	109	69-135	9	20	
o-Xylene	434	20.0	6.60	ug/L	400	6.60 U	108	78-132	10	20	
p-Isopropyltoluene	429	20.0	7.80	ug/L	400	7.80 U	107	77-127	9	20	
sec-Butyl Benzene	442	20.0	8.00	ug/L	400	8.00 U	111	75-131	9	20	
Styrene	415	20.0	6.40	ug/L	400	6.40 U	104	80-134	9	20	
tert-Butyl Benzene	453	20.0	6.90	ug/L	400	6.90 U	113	78-132	10	20	
Tetrachloroethene (PCE)	351	20.0	15.0	ug/L	400	15.0 U	88	54-144	7	20	
Toluene	413	20.0	5.80	ug/L	400	5.80 U	103	82-120	8	20	
trans-1,2-Dichloroethene	411	20.0	5.00	ug/L	400	5.00 U	103	85-121	9	20	
trans-1,3-Dichloropropene	369	20.0	4.50	ug/L	400	4.50 U	92	62-126	8	20	
Trichloroethene (TCE)	417	20.0	7.40	ug/L	400	7.40 U	104	80-127	10	20	
Trichlorofluoromethane	418	20.0	11.0	ug/L	400	11.0 U	105	72-143	8	20	
Vinyl Acetate	1100	20.0	16.3	ug/L	1000	16.3 U	110	46-145	11	20	
Vinyl Chloride	377	10.0	9.70	ug/L	400	9.70 U	94	75-131	10	20	
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	51.0			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD Limits	RPD RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)

Prepared: 20-Jan-14 13:11

Analyzed: 20-Jan-14 20:11

1,2,4,5-Tetrachlorobenzene	0.0230 U	0.0500	0.0230	mg/kg wet
1,2,4-Trichlorobenzene	0.0217 U	0.0500	0.0217	mg/kg wet
1,2-Dichlorobenzene	0.0320 U	0.0500	0.0320	mg/kg wet
1,3-Dichlorobenzene	0.0600 U	0.100	0.0600	mg/kg wet
1,4-Dichlorobenzene	0.0521 U	0.100	0.0521	mg/kg wet
1-Methylnaphthalene	0.0225 U	0.0500	0.0225	mg/kg wet
2,4,5-Trichlorophenol	0.0556 U	0.100	0.0556	mg/kg wet
1-Chloronaphthalene	0.0240 U	0.0500	0.0240	mg/kg wet
2,4,6-Trichlorophenol	0.0736 U	0.100	0.0736	mg/kg wet
2,4-Dichlorophenol	0.0560 U	0.100	0.0560	mg/kg wet
1-Naphthylamine	0.0620 U	0.150	0.0620	mg/kg wet
2,4-Dimethylphenol	0.0534 U	0.200	0.0534	mg/kg wet
2,3,4,6-Tetrachlorophenol	0.0450 U	0.100	0.0450	mg/kg wet
2,4-Dinitrophenol	0.104 U	0.200	0.104	mg/kg wet
2,4-Dinitrotoluene	0.0122 U	0.0500	0.0122	mg/kg wet
2,6-Dichlorophenol	0.0397 U	0.0500	0.0397	mg/kg wet
2-Chloronaphthalene	0.0231 U	0.0500	0.0231	mg/kg wet
2-Chlorophenol	0.0711 U	0.100	0.0711	mg/kg wet
2,6-Dinitrotoluene	0.0130 U	0.0500	0.0130	mg/kg wet
2-Methylnaphthalene	0.0313 U	0.0500	0.0313	mg/kg wet
2-Methylphenol	0.0399 U	0.0500	0.0399	mg/kg wet
2-Nitroaniline	0.0370 U	0.0500	0.0370	mg/kg wet
2-Nitrophenol	0.0365 U	0.200	0.0365	mg/kg wet
3,3-Dichlorobenzidine	0.166 U	0.200	0.166	mg/kg wet
3/4-Methylphenol	0.0503 U	0.100	0.0503	mg/kg wet
3-Nitroaniline	0.0334 U	0.100	0.0334	mg/kg wet
4-Bromophenyl-Phenylether	0.0349 U	0.0500	0.0349	mg/kg wet
2-Naphthylamine	0.0310 U	0.0500	0.0310	mg/kg wet
4-Chloro-3-Methylphenol	0.0528 U	0.100	0.0528	mg/kg wet
4-Chloroaniline	0.0340 U	0.100	0.0340	mg/kg wet
4-Chlorophenyl-Phenylether	0.0218 U	0.0500	0.0218	mg/kg wet
4-Nitroaniline	0.0235 U	0.100	0.0235	mg/kg wet
4-Nitrophenol	0.117 U	0.200	0.117	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD Limits	RPD RPD	Limit Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)				Prepared: 20-Jan-14 13:11		Analyzed: 20-Jan-14 20:11					
Acenaphthene	0.0322 U	0.0500	0.0322	mg/kg	wet						
4,6-Dinitro-2-Methylphenol	0.0870 U	0.200	0.0870	mg/kg	wet						
Acenaphthylene	0.0107 U	0.0500	0.0107	mg/kg	wet						
Anthracene	0.0159 U	0.0500	0.0159	mg/kg	wet						
Benzo(a)anthracene	0.0156 U	0.0500	0.0156	mg/kg	wet						
Benzo(a)pyrene	0.0148 U	0.0500	0.0148	mg/kg	wet						
Benzo(b)fluoranthene	0.0186 U	0.0500	0.0186	mg/kg	wet						
4-Dimethylaminoazobenzene	0.0200 U	0.0500	0.0200	mg/kg	wet						
Benzo(g,h,i)perylene	0.0223 U	0.0500	0.0223	mg/kg	wet						
Benzo(k)fluoranthene	0.0261 U	0.0500	0.0261	mg/kg	wet						
Benzyl alcohol	0.0388 U	0.0500	0.0388	mg/kg	wet						
bis(2-Chloroethoxy)methane	0.0241 U	0.0500	0.0241	mg/kg	wet						
Bis(2-Chloroethyl)ether	0.0372 U	0.0500	0.0372	mg/kg	wet						
Bis(2-chloroisopropyl)ether	0.0520 U	0.100	0.0520	mg/kg	wet						
Bis(2-Ethylhexyl)phthalate	0.0149 U	0.0500	0.0149	mg/kg	wet						
Butylbenzylphthalate	0.0248 U	0.0500	0.0248	mg/kg	wet						
Aniline	0.0530 U	0.100	0.0530	mg/kg	wet						
Carbazole	0.0257 U	0.0500	0.0257	mg/kg	wet						
Chrysene	0.0197 U	0.0500	0.0197	mg/kg	wet						
Azobenzene	0.0200 U	0.0500	0.0200	mg/kg	wet						
Benidine	0.172 U	0.200	0.172	mg/kg	wet						
Dibenzo(a,h)anthracene	0.0158 U	0.0500	0.0158	mg/kg	wet						
Dibenzofuran	0.0256 U	0.0500	0.0256	mg/kg	wet						
Diethylphthalate	0.0163 U	0.0500	0.0163	mg/kg	wet						
Dimethylphthalate	0.0335 U	0.0500	0.0335	mg/kg	wet						
Di-n-Butyl Phthalate	0.0205 U	0.0500	0.0205	mg/kg	wet						
Di-n-Octyl Phthalate	0.0195 U	0.0500	0.0195	mg/kg	wet						
Fluoranthene	0.0149 U	0.0500	0.0149	mg/kg	wet						
Fluorene	0.0214 U	0.0500	0.0214	mg/kg	wet						
Hexachlorobenzene	0.0387 U	0.0500	0.0387	mg/kg	wet						
Hexachlorobutadiene	0.0387 U	0.0500	0.0387	mg/kg	wet						
Hexachlorocyclopentadiene	0.0174 U	0.0500	0.0174	mg/kg	wet						
Hexachloroethane	0.0250 U	0.0500	0.0250	mg/kg	wet						



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Blank (B401105-BLK1)				Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 20:11				
Indeno(1,2,3-cd)pyrene	0.0239 U	0.0500	0.0239	mg/kg wet							
Isophorone	0.0224 U	0.0500	0.0224	mg/kg wet							
Naphthalene	0.0212 U	0.0500	0.0212	mg/kg wet							
Nitrobenzene	0.0393 U	0.0500	0.0393	mg/kg wet							
N-Nitrosodi-n-butylamine	0.0222 U	0.0500	0.0222	mg/kg wet							
N-Nitroso-di-n-propylamine	0.0430 U	0.0500	0.0430	mg/kg wet							
N-Nitrosodiphenylamine	0.0317 U	0.0500	0.0317	mg/kg wet							
Pentachlorophenol	0.0912 U	0.200	0.0912	mg/kg wet							
Phenanthrene	0.0119 U	0.0500	0.0119	mg/kg wet							
Phenol	0.0541 U	0.100	0.0541	mg/kg wet							
Pyrene	0.0201 U	0.0500	0.0201	mg/kg wet							
N-Nitrosodiethylamine	0.0460 U	0.0500	0.0460	mg/kg wet							
N-Nitrosodimethylamine	0.0480 U	0.0500	0.0480	mg/kg wet							
N-Nitrosomethylethylamine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosomorpholine	0.0370 U	0.0500	0.0370	mg/kg wet							
N-Nitrosopiperidine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosopyrrolidine	0.0270 U	0.0500	0.0270	mg/kg wet							
o-Toluidine	0.0340 U	0.100	0.0340	mg/kg wet							
Pyridine	0.0660 U	0.200	0.0660	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	1.24			mg/kg wet	1.67		75	45-107			
Surrogate: 2-Fluorobiphenyl	0.584			mg/kg wet	0.833		70	50-100			
Surrogate: 2-Fluorophenol	1.06			mg/kg wet	1.67		64	36-100			
Surrogate: Nitrobenzene-d5	0.589			mg/kg wet	0.833		71	25-130			
Surrogate: Phenol-d5	1.17			mg/kg wet	1.67		70	34-109			
Surrogate: Terphenyl-d14	0.708			mg/kg wet	0.833		85	55-105			
LCS (B401105-BS1)				Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 20:47				
1,2,4-Trichlorobenzene	2.28	0.0500	0.0217	mg/kg wet	3.33		69	33-100			
1,4-Dichlorobenzene	2.23	0.100	0.0521	mg/kg wet	3.33		67	34-100			
1-Methylnaphthalene	0.244	0.0500	0.0225	mg/kg wet	0.333		73	39-100			
2,4-Dinitrotoluene	2.47	0.0500	0.0122	mg/kg wet	3.33		74	38-112			
2-Chlorophenol	3.42	0.100	0.0711	mg/kg wet	5.00		68	27-100			
2-Methylnaphthalene	0.263	0.0500	0.0313	mg/kg wet	0.333		79	41-100			
4-Chloro-3-Methylphenol	3.85	0.100	0.0528	mg/kg wet	5.00		77	30-100			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

LCS (B401105-BS1)					Prepared: 20-Jan-14 13:11		Analyzed: 20-Jan-14 20:47				
4-Nitrophenol	3.28	0.200	0.117	mg/kg wet	5.00		66	16-101			
Acenaphthene	2.65	0.0500	0.0322	mg/kg wet	3.67		72	28-100			
Acenaphthylene	0.281	0.0500	0.0107	mg/kg wet	0.333		84	41-100			
Anthracene	0.260	0.0500	0.0159	mg/kg wet	0.333		78	45-103			
Benzo(a)anthracene	0.256	0.0500	0.0156	mg/kg wet	0.333		77	51-101			
Benzo(a)pyrene	0.225	0.0500	0.0148	mg/kg wet	0.333		68	51-110			
Benzo(b)fluoranthene	0.213	0.0500	0.0186	mg/kg wet	0.333		64	41-106			
Benzo(g,h,i)perylene	0.222	0.0500	0.0223	mg/kg wet	0.333		67	45-106			
Benzo(k)fluoranthene	0.227	0.0500	0.0261	mg/kg wet	0.333		68	42-109			
Chrysene	0.277	0.0500	0.0197	mg/kg wet	0.333		83	53-110			
Dibenzo(a,h)anthracene	0.225	0.0500	0.0158	mg/kg wet	0.333		68	43-106			
Fluoranthene	0.251	0.0500	0.0149	mg/kg wet	0.333		75	43-104			
Fluorene	0.250	0.0500	0.0214	mg/kg wet	0.333		75	39-101			
Indeno(1,2,3-cd)pyrene	0.232	0.0500	0.0239	mg/kg wet	0.333		70	40-105			
Naphthalene	0.245	0.0500	0.0212	mg/kg wet	0.333		73	6-125			
N-Nitroso-di-n-propylamine	2.57	0.0500	0.0430	mg/kg wet	3.33		77	41-100			
Pentachlorophenol	2.93	0.200	0.0912	mg/kg wet	5.00		59	16-100			
Phenanthrene	0.260	0.0500	0.0119	mg/kg wet	0.333		78	44-103			
Phenol	3.38	0.100	0.0541	mg/kg wet	5.00		68	20-100			
Pyrene	2.92	0.0500	0.0201	mg/kg wet	3.67		80	48-114			
Surrogate: 2,4,6-Tribromophenol	1.19			mg/kg wet	1.67		72	45-107			
Surrogate: 2-Fluorobiphenyl	0.582			mg/kg wet	0.833		70	50-100			
Surrogate: 2-Fluorophenol	1.02			mg/kg wet	1.67		61	36-100			
Surrogate: Nitrobenzene-d5	0.586			mg/kg wet	0.833		70	25-130			
Surrogate: Phenol-d5	1.17			mg/kg wet	1.67		70	34-109			
Surrogate: Terphenyl-d14	0.670			mg/kg wet	0.833		80	55-105			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Matrix Spike (B401105-MS1)	Source: 1312115-01			Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 21:23				
1,2,4-Trichlorobenzene	2.97	0.0638	0.0277	mg/kg dry	4.26	0.0277 U	70	38-100			
1,4-Dichlorobenzene	2.96	0.128	0.0665	mg/kg dry	4.26	0.0665 U	70	40-100			
1-Methylnaphthalene	0.328	0.0638	0.0287	mg/kg dry	0.426	0.0287 U	77	39-100			
2,4-Dinitrotoluene	3.17	0.0638	0.0156	mg/kg dry	4.26	0.0156 U	75	33-116			
2-Chlorophenol	4.65	0.128	0.0907	mg/kg dry	6.38	0.0907 U	73	30-100			
2-Methylnaphthalene	0.349	0.0638	0.0400	mg/kg dry	0.426	0.0400 U	82	40-100			
4-Chloro-3-Methylphenol	5.05	0.128	0.0674	mg/kg dry	6.38	0.0674 U	79	31-103			
4-Nitrophenol	4.30	0.255	0.149	mg/kg dry	6.38	0.149 U	67	13-114			
Acenaphthene	3.49	0.0638	0.0411	mg/kg dry	4.68	0.0411 U	74	29-100			
Acenaphthylene	0.379	0.0638	0.0136	mg/kg dry	0.426	0.0136 U	89	41-100			
Anthracene	0.343	0.0638	0.0203	mg/kg dry	0.426	0.0203 U	81	47-100			
Benzo(a)anthracene	0.337	0.0638	0.0200	mg/kg dry	0.426	0.0200 U	79	36-105			
Benzo(a)pyrene	0.304	0.0638	0.0189	mg/kg dry	0.426	0.0189 U	71	38-123			
Benzo(b)fluoranthene	0.286	0.0638	0.0238	mg/kg dry	0.426	0.0238 U	67	32-114			
Benzo(g,h,i)perylene	0.295	0.0638	0.0285	mg/kg dry	0.426	0.0285 U	69	41-107			
Benzo(k)fluoranthene	0.309	0.0638	0.0333	mg/kg dry	0.426	0.0333 U	73	32-117			
Chrysene	0.364	0.0638	0.0252	mg/kg dry	0.426	0.0252 U	85	41-121			
Dibenzo(a,h)anthracene	0.303	0.0638	0.0202	mg/kg dry	0.426	0.0202 U	71	44-102			
Fluoranthene	0.333	0.0638	0.0190	mg/kg dry	0.426	0.0190 U	78	28-119			
Fluorene	0.344	0.0638	0.0273	mg/kg dry	0.426	0.0273 U	81	42-100			
Indeno(1,2,3-cd)pyrene	0.300	0.0638	0.0305	mg/kg dry	0.426	0.0305 U	70	25-142			
Naphthalene	0.338	0.0638	0.0270	mg/kg dry	0.426	0.0270 U	79	19-109			
N-Nitroso-di-n-propylamine	3.40	0.0638	0.0548	mg/kg dry	4.26	0.0548 U	80	39-101			
Pentachlorophenol	4.64	0.255	0.116	mg/kg dry	6.38	0.116 U	73	24-107			
Phenanthrene	0.354	0.0638	0.0152	mg/kg dry	0.426	0.0152 U	83	40-105			
Phenol	4.48	0.128	0.0691	mg/kg dry	6.38	0.0691 U	70	26-100			
Pyrene	3.75	0.0638	0.0256	mg/kg dry	4.68	0.0256 U	80	35-129			
Surrogate: 2,4,6-Tribromophenol	1.68			mg/kg dry	2.13		79	45-107			
Surrogate: 2-Fluorobiphenyl	0.779			mg/kg dry	1.06		73	50-100			
Surrogate: 2-Fluorophenol	1.45			mg/kg dry	2.13		68	36-100			
Surrogate: Nitrobenzene-d5	0.791			mg/kg dry	1.06		74	25-130			
Surrogate: Phenol-d5	1.67			mg/kg dry	2.13		78	34-109			
Surrogate: Terphenyl-d14	0.902			mg/kg dry	1.06		85	55-105			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401105 - Prep Method: 3550B

Matrix Spike Dup (B401105-MSD1)	Source: 1312115-01			Prepared: 20-Jan-14 13:11			Analyzed: 20-Jan-14 21:58				
1,2,4-Trichlorobenzene	2.93	0.0638	0.0277	mg/kg dry	4.26	0.0277 U	69	38-100	1	25	
1,4-Dichlorobenzene	2.91	0.128	0.0665	mg/kg dry	4.26	0.0665 U	68	40-100	2	25	
1-Methylnaphthalene	0.308	0.0638	0.0287	mg/kg dry	0.426	0.0287 U	72	39-100	6	25	
2,4-Dinitrotoluene	3.16	0.0638	0.0156	mg/kg dry	4.26	0.0156 U	74	33-116	0.5	25	
2-Chlorophenol	4.51	0.128	0.0907	mg/kg dry	6.38	0.0907 U	71	30-100	3	25	
2-Methylnaphthalene	0.333	0.0638	0.0400	mg/kg dry	0.426	0.0400 U	78	40-100	5	25	
4-Chloro-3-Methylphenol	5.01	0.128	0.0674	mg/kg dry	6.38	0.0674 U	78	31-103	0.9	25	
4-Nitrophenol	4.45	0.255	0.149	mg/kg dry	6.38	0.149 U	70	13-114	4	25	
Acenaphthene	3.51	0.0638	0.0411	mg/kg dry	4.68	0.0411 U	75	29-100	0.6	25	
Acenaphthylene	0.351	0.0638	0.0136	mg/kg dry	0.426	0.0136 U	83	41-100	8	25	
Anthracene	0.320	0.0638	0.0203	mg/kg dry	0.426	0.0203 U	75	47-100	7	25	
Benzo(a)anthracene	0.312	0.0638	0.0200	mg/kg dry	0.426	0.0200 U	73	36-105	8	25	
Benzo(a)pyrene	0.293	0.0638	0.0189	mg/kg dry	0.426	0.0189 U	69	38-123	4	25	
Benzo(b)fluoranthene	0.270	0.0638	0.0238	mg/kg dry	0.426	0.0238 U	63	32-114	6	25	
Benzo(g,h,i)perylene	0.277	0.0638	0.0285	mg/kg dry	0.426	0.0285 U	65	41-107	6	25	
Benzo(k)fluoranthene	0.293	0.0638	0.0333	mg/kg dry	0.426	0.0333 U	69	32-117	5	25	
Chrysene	0.362	0.0638	0.0252	mg/kg dry	0.426	0.0252 U	85	41-121	0.5	25	
Dibenzo(a,h)anthracene	0.282	0.0638	0.0202	mg/kg dry	0.426	0.0202 U	66	44-102	7	25	
Fluoranthene	0.316	0.0638	0.0190	mg/kg dry	0.426	0.0190 U	74	28-119	5	25	
Fluorene	0.311	0.0638	0.0273	mg/kg dry	0.426	0.0273 U	73	42-100	10	25	
Indeno(1,2,3-cd)pyrene	0.284	0.0638	0.0305	mg/kg dry	0.426	0.0305 U	67	25-142	5	25	
Naphthalene	0.314	0.0638	0.0270	mg/kg dry	0.426	0.0270 U	74	19-109	7	25	
N-Nitroso-di-n-propylamine	3.38	0.0638	0.0548	mg/kg dry	4.26	0.0548 U	79	39-101	0.6	25	
Pentachlorophenol	4.78	0.255	0.116	mg/kg dry	6.38	0.116 U	75	24-107	3	25	
Phenanthrene	0.322	0.0638	0.0152	mg/kg dry	0.426	0.0152 U	76	40-105	10	25	
Phenol	4.41	0.128	0.0691	mg/kg dry	6.38	0.0691 U	69	26-100	2	25	
Pyrene	3.82	0.0638	0.0256	mg/kg dry	4.68	0.0256 U	82	35-129	2	25	
Surrogate: 2,4,6-Tribromophenol	1.61			mg/kg dry	2.13		76	45-107			
Surrogate: 2-Fluorobiphenyl	0.756			mg/kg dry	1.06		71	50-100			
Surrogate: 2-Fluorophenol	1.34			mg/kg dry	2.13		63	36-100			
Surrogate: Nitrobenzene-d5	0.733			mg/kg dry	1.06		69	25-130			
Surrogate: Phenol-d5	1.53			mg/kg dry	2.13		72	34-109			
Surrogate: Terphenyl-d14	0.870			mg/kg dry	1.06		82	55-105			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L							
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L							
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L							
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L							
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L							
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L							
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L							
1-Naphthylamine	5.03 U	10.0	5.03	ug/L							
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L							
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L							
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L							
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L							
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L							
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L							
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L							
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L							
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L							
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L							
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L							
2-Chlorophenol	1.47 U	5.00	1.47	ug/L							
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L							
2-Methylphenol	0.534 U	5.00	0.534	ug/L							
2-Naphthylamine	2.37 U	10.0	2.37	ug/L							
2-Nitroaniline	0.892 U	20.0	0.892	ug/L							
2-Nitrophenol	1.73 U	20.0	1.73	ug/L							
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L							
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L							
3-Nitroaniline	1.26 U	5.00	1.26	ug/L							
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L							
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L							
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L							
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L							
4-Chloroaniline	2.88 U	5.00	2.88	ug/L							



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L							
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L							
4-Nitroaniline	1.20 U	5.00	1.20	ug/L							
4-Nitrophenol	0.717 U	20.0	0.717	ug/L							
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L							
Acenaphthene	0.0640 U	1.00	0.0640	ug/L							
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L							
Aniline	3.70 U	4.00	3.70	ug/L							
Anthracene	0.0670 U	0.300	0.0670	ug/L							
Azobenzene	0.785 U	1.00	0.785	ug/L							
Benzidine	5.70 U	50.0	5.70	ug/L							
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L							
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L							
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L							
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L							
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L							
Benzyl alcohol	0.386 U	5.00	0.386	ug/L							
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L							
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L							
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L							
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L							
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L							
Carbazole	0.521 U	5.00	0.521	ug/L							
Chrysene	0.135 U	0.200	0.135	ug/L							
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L							
Dibenzofuran	0.716 U	5.00	0.716	ug/L							
Diethylphthalate	0.795 U	5.00	0.795	ug/L							
Dimethylphthalate	0.617 U	5.00	0.617	ug/L							
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L							
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L							
Fluoranthene	0.0910 U	0.300	0.0910	ug/L							
Fluorene	0.0660 U	1.00	0.0660	ug/L							
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L							



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EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L						
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L						
Hexachloroethane	1.53 U	5.00	1.53	ug/L						
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L						
Isophorone	1.00 U	5.00	1.00	ug/L						
Naphthalene	0.0640 U	1.00	0.0640	ug/L						
Nitrobenzene	0.746 U	3.50	0.746	ug/L						
o-Toluidine	3.32 U	5.00	3.32	ug/L						
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L						
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L						
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L						
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L						
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L						
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L						
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L						
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L						
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L						
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L						
Pentachlorophenol	1.72 U	20.0	1.72	ug/L						
Phenanthrene	0.0780 U	0.200	0.0780	ug/L						
Phenol	0.796 U	6.50	0.796	ug/L						
Pyrene	0.0930 U	0.300	0.0930	ug/L						
Pyridine	0.689 U	5.00	0.689	ug/L						
Surrogate: 2,4,6-Tribromophenol	30.9			ug/L	50.0		62	15-122		
Surrogate: 2-Fluorobiphenyl	15.6			ug/L	25.0		63	49-100		
Surrogate: 2-Fluorophenol	11.9			ug/L	50.0		24	1-100		
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106		
Surrogate: Phenol-d5	7.93			ug/L	50.0		16	2-100		
Surrogate: Terphenyl-d14	19.9			ug/L	25.0		80	56-108		



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24-Jan-14 08:41
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EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

LCS (B401120-BS1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:47	
1,2,4-Trichlorobenzene	60.5	5.00	1.09	ug/L	100	60	20-109	
1,4-Dichlorobenzene	57.2	5.00	1.11	ug/L	100	57	19-101	
1-Methylnaphthalene	6.34	1.00	0.0530	ug/L	10.0	63	30-102	
2,4-Dinitrotoluene	61.2	5.00	0.915	ug/L	100	61	47-109	
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	47	19-100	
2-Methylnaphthalene	7.17	1.00	0.0610	ug/L	10.0	72	28-106	
4-Chloro-3-Methylphenol	83.7	5.00	1.58	ug/L	150	56	25-103	
4-Nitrophenol	16.3	20.0	0.717	ug/L	150	11	9-100	
Acenaphthene	71.8	1.00	0.0640	ug/L	110	65	30-100	
Acenaphthylene	7.22	1.00	0.0590	ug/L	10.0	72	32-103	
Anthracene	6.97	0.300	0.0670	ug/L	10.0	70	38-116	
Benzo(a)anthracene	6.98	0.200	0.105	ug/L	10.0	70	37-110	
Benzo(a)pyrene	6.39	0.100	0.0790	ug/L	10.0	64	44-119	
Benzo(b)fluoranthene	5.58	0.100	0.0820	ug/L	10.0	56	34-115	
Benzo(g,h,i)perylene	5.79	0.200	0.0610	ug/L	10.0	58	43-117	
Benzo(k)fluoranthene	7.00	0.100	0.0770	ug/L	10.0	70	43-118	
Chrysene	8.05	0.200	0.135	ug/L	10.0	80	44-125	
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	61	40-116	
Fluoranthene	6.79	0.300	0.0910	ug/L	10.0	68	39-114	
Fluorene	6.68	1.00	0.0660	ug/L	10.0	67	39-104	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	60	50-103	
Naphthalene	6.80	1.00	0.0640	ug/L	10.0	68	9-135	
N-Nitroso-di-n-propylamine	66.6	5.00	0.964	ug/L	100	67	24-117	
Pentachlorophenol	89.8	20.0	1.72	ug/L	150	60	39-103	
Phenanthrene	7.09	0.200	0.0780	ug/L	10.0	71	42-113	
Phenol	21.1	6.50	0.796	ug/L	150	14	4-100	
Pyrene	81.0	0.300	0.0930	ug/L	110	74	38-133	
Surrogate: 2,4,6-Tribromophenol	29.5			ug/L	50.0	59	15-122	
Surrogate: 2-Fluorobiphenyl	15.1			ug/L	25.0	60	49-100	
Surrogate: 2-Fluorophenol	10.6			ug/L	50.0	21	1-100	
Surrogate: Nitrobenzene-d5	13.8			ug/L	25.0	55	47-106	
Surrogate: Phenol-d5	6.64			ug/L	50.0	13	2-100	
Surrogate: Terphenyl-d14	18.2			ug/L	25.0	73	56-108	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike (B401120-MS1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:22				
1,2,4-Trichlorobenzene	63.8	5.00	1.09	ug/L	100	1.09 U	64	46-92			
1,4-Dichlorobenzene	61.7	5.00	1.11	ug/L	100	1.11 U	62	37-100			
1-Methylnaphthalene	6.89	1.00	0.0530	ug/L	10.0	0.0530 U	69	54-100			
2,4-Dinitrotoluene	63.7	5.00	0.915	ug/L	100	0.915 U	64	66-100			J2
2-Chlorophenol	71.5	5.00	1.47	ug/L	150	1.47 U	48	33-100			
2-Methylnaphthalene	7.35	1.00	0.0610	ug/L	10.0	0.0610 U	74	51-100			
4-Chloro-3-Methylphenol	88.1	5.00	1.58	ug/L	150	1.58 U	59	51-100			
4-Nitrophenol	7.41	20.0	0.717	ug/L	150	0.717 U	5	13-100			I, J2
Acenaphthene	75.6	1.00	0.0640	ug/L	110	0.0640 U	69	62-100			
Acenaphthylene	7.82	1.00	0.0590	ug/L	10.0	0.0590 U	78	57-100			
Anthracene	7.29	0.300	0.0670	ug/L	10.0	0.0670 U	73	64-100			
Benzo(a)anthracene	7.09	0.200	0.105	ug/L	10.0	0.105 U	71	65-100			
Benzo(a)pyrene	6.34	0.100	0.0790	ug/L	10.0	0.0790 U	63	72-100			J2
Benzo(b)fluoranthene	5.96	0.100	0.0820	ug/L	10.0	0.0820 U	60	63-100			J2
Benzo(g,h,i)perylene	6.14	0.200	0.0610	ug/L	10.0	0.0610 U	61	64-102			J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113			
Chrysene	8.13	0.200	0.135	ug/L	10.0	0.135 U	81	67-100			
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	0.0680 U	61	64-100			J2
Fluoranthene	6.94	0.300	0.0910	ug/L	10.0	0.0910 U	69	68-100			
Fluorene	7.16	1.00	0.0660	ug/L	10.0	0.0660 U	72	62-100			
Indeno(1,2,3-cd)pyrene	5.88	0.200	0.0130	ug/L	10.0	0.0130 U	59	52-100			
Naphthalene	7.25	1.00	0.0640	ug/L	10.0	0.0640 U	72	24-100			
N-Nitroso-di-n-propylamine	68.1	5.00	0.964	ug/L	100	0.964 U	68	50-100			
Pentachlorophenol	57.0	20.0	1.72	ug/L	150	1.72 U	38	64-100			J2
Phenanthrene	7.44	0.200	0.0780	ug/L	10.0	0.0780 U	74	68-100			
Phenol	24.9	6.50	0.796	ug/L	150	0.796 U	17	7-100			
Pyrene	83.3	0.300	0.0930	ug/L	110	0.0930 U	76	68-100			
Surrogate: 2,4,6-Tribromophenol	28.1			ug/L	50.0		56	15-122			
Surrogate: 2-Fluorobiphenyl	17.1			ug/L	25.0		69	49-100			
Surrogate: 2-Fluorophenol	11.7			ug/L	50.0		23	1-100			
Surrogate: Nitrobenzene-d5	15.4			ug/L	25.0		62	47-106			
Surrogate: Phenol-d5	8.09			ug/L	50.0		16	2-100			
Surrogate: Terphenyl-d14	19.5			ug/L	25.0		78	56-108			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike Dup (B401120-MSD1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:58				
1,2,4-Trichlorobenzene	63.3	5.00	1.09	ug/L	100	1.09 U	63	46-92	0.8	25	
1,4-Dichlorobenzene	61.8	5.00	1.11	ug/L	100	1.11 U	62	37-100	0.2	25	
1-Methylnaphthalene	6.52	1.00	0.0530	ug/L	10.0	0.0530 U	65	54-100	6	25	
2,4-Dinitrotoluene	63.4	5.00	0.915	ug/L	100	0.915 U	63	66-100	0.4	25	J2
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	1.47 U	47	33-100	1	25	
2-Methylnaphthalene	6.94	1.00	0.0610	ug/L	10.0	0.0610 U	69	51-100	6	25	
4-Chloro-3-Methylphenol	85.8	5.00	1.58	ug/L	150	1.58 U	57	51-100	3	25	
4-Nitrophenol	8.00	20.0	0.717	ug/L	150	0.717 U	5	13-100	8	25	I, J2
Acenaphthene	75.4	1.00	0.0640	ug/L	110	0.0640 U	68	62-100	0.3	25	
Acenaphthylene	7.29	1.00	0.0590	ug/L	10.0	0.0590 U	73	57-100	7	25	
Anthracene	6.86	0.300	0.0670	ug/L	10.0	0.0670 U	69	64-100	6	25	
Benzo(a)anthracene	7.00	0.200	0.105	ug/L	10.0	0.105 U	70	65-100	1	25	
Benzo(a)pyrene	5.99	0.100	0.0790	ug/L	10.0	0.0790 U	60	72-100	6	25	J2
Benzo(b)fluoranthene	5.79	0.100	0.0820	ug/L	10.0	0.0820 U	58	63-100	3	25	J2
Benzo(g,h,i)perylene	6.03	0.200	0.0610	ug/L	10.0	0.0610 U	60	64-102	2	25	J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113	0	25	
Chrysene	7.71	0.200	0.135	ug/L	10.0	0.135 U	77	67-100	5	25	
Dibenzo(a,h)anthracene	5.94	0.200	0.0680	ug/L	10.0	0.0680 U	59	64-100	2	25	J2
Fluoranthene	6.77	0.300	0.0910	ug/L	10.0	0.0910 U	68	68-100	2	25	
Fluorene	6.53	1.00	0.0660	ug/L	10.0	0.0660 U	65	62-100	9	25	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	0.0130 U	60	52-100	2	25	
Naphthalene	6.73	1.00	0.0640	ug/L	10.0	0.0640 U	67	24-100	7	25	
N-Nitroso-di-n-propylamine	68.6	5.00	0.964	ug/L	100	0.964 U	69	50-100	0.8	25	
Pentachlorophenol	60.2	20.0	1.72	ug/L	150	1.72 U	40	64-100	6	25	J2
Phenanthrene	7.33	0.200	0.0780	ug/L	10.0	0.0780 U	73	68-100	1	25	
Phenol	24.8	6.50	0.796	ug/L	150	0.796 U	17	7-100	0.6	25	
Pyrene	80.9	0.300	0.0930	ug/L	110	0.0930 U	74	68-100	3	25	
Surrogate: 2,4,6-Tribromophenol	28.5			ug/L	50.0		57	15-122			
Surrogate: 2-Fluorobiphenyl	15.8			ug/L	25.0		63	49-100			
Surrogate: 2-Fluorophenol	11.2			ug/L	50.0		22	1-100			
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106			
Surrogate: Phenol-d5	7.66			ug/L	50.0		15	2-100			
Surrogate: Terphenyl-d14	18.9			ug/L	25.0		75	56-108			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Blank (B401117-BLK1)				Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 09:51				
alpha-BHC	0.000690 U	0.00100	0.000690	mg/kg wet							
beta-BHC	0.000650 U	0.00100	0.000650	mg/kg wet							
gamma-BHC	0.000880 U	0.00100	0.000880	mg/kg wet							
delta-BHC	0.000660 U	0.00100	0.000660	mg/kg wet							
Heptachlor	0.000760 U	0.00100	0.000760	mg/kg wet							
Aldrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Heptachlor Epoxide	0.000580 U	0.00100	0.000580	mg/kg wet							
gamma-Chlordane	0.000510 U	0.00100	0.000510	mg/kg wet							
Endosulfan I	0.000510 U	0.00100	0.000510	mg/kg wet							
alpha-Chlordane	0.000490 U	0.00100	0.000490	mg/kg wet							
Dieldrin	0.000530 U	0.00100	0.000530	mg/kg wet							
4,4-DDE	0.000650 U	0.00100	0.000650	mg/kg wet							
Endrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Endosulfan II	0.000510 U	0.00100	0.000510	mg/kg wet							
4,4-DDD	0.000660 U	0.00100	0.000660	mg/kg wet							
Endrin Aldehyde	0.000610 U	0.00100	0.000610	mg/kg wet							
Endosulfan Sulfate	0.000580 U	0.00100	0.000580	mg/kg wet							
4,4-DDT	0.000580 U	0.00100	0.000580	mg/kg wet							
Endrin Ketone	0.000680 U	0.00100	0.000680	mg/kg wet							
Methoxychlor	0.000830 U	0.00100	0.000830	mg/kg wet							
Chlordane	0.00540 U	0.0500	0.00540	mg/kg wet							
Toxaphene	0.0180 U	0.0500	0.0180	mg/kg wet							

Surrogate: TCMX	0.00674			mg/kg wet	0.00833	81	47-122
Surrogate: Decachlorobiphenyl	0.00981			mg/kg wet	0.00833	118	23-150

LCS (B401117-BS1)				Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 10:24	
alpha-BHC	0.0173	0.00100	0.000690	mg/kg wet	0.0167	104	30-115
beta-BHC	0.0165	0.00100	0.000650	mg/kg wet	0.0167	99	39-141
gamma-BHC	0.0174	0.00100	0.000880	mg/kg wet	0.0167	104	52-109
delta-BHC	0.0200	0.00100	0.000660	mg/kg wet	0.0167	120	47-123
Heptachlor	0.0164	0.00100	0.000760	mg/kg wet	0.0167	98	45-121
Aldrin	0.0163	0.00100	0.000550	mg/kg wet	0.0167	98	37-114
Heptachlor Epoxide	0.0160	0.00100	0.000580	mg/kg wet	0.0167	96	44-122
gamma-Chlordane	0.0157	0.00100	0.000510	mg/kg wet	0.0167	94	41-122



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

LCS (B401117-BS1)					Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 10:24			
Endosulfan I	0.0163	0.00100	0.000510	mg/kg wet	0.0167		98	43-123		
alpha-Chlordane	0.0155	0.00100	0.000490	mg/kg wet	0.0167		93	40-122		
Dieldrin	0.0185	0.00100	0.000530	mg/kg wet	0.0167		111	45-127		
4,4-DDE	0.0205	0.00100	0.000650	mg/kg wet	0.0167		123	46-123		
Endrin	0.0190	0.00100	0.000550	mg/kg wet	0.0167		114	34-154		
Endosulfan II	0.0166	0.00100	0.000510	mg/kg wet	0.0167		100	41-150		
4,4-DDD	0.0202	0.00100	0.000660	mg/kg wet	0.0167		121	48-141		
Endrin Aldehyde	0.0192	0.00100	0.000610	mg/kg wet	0.0167		115	39-143		
Endosulfan Sulfate	0.0202	0.00100	0.000580	mg/kg wet	0.0167		121	46-147		
4,4-DDT	0.0142	0.00100	0.000580	mg/kg wet	0.0167		85	44-154		
Endrin Ketone	0.0194	0.00100	0.000680	mg/kg wet	0.0167		116	50-154		
Methoxychlor	0.0271	0.00100	0.000830	mg/kg wet	0.0167		163	44-171		
Surrogate: TCMX	0.00596			mg/kg wet	0.00833		72	47-122		
Surrogate: Decachlorobiphenyl	0.00911			mg/kg wet	0.00833		109	23-150		
Matrix Spike (B401117-MS1)					Source: 1312116-02		Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 10:58	
alpha-BHC	0.0231	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	116	47-126		
beta-BHC	0.0221	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	111	56-149		
gamma-BHC	0.0238	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	119	56-131		
delta-BHC	0.0261	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	131	55-139		
Heptachlor	0.0216	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	108	57-136		
Aldrin	0.0220	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	111	55-116		
Heptachlor Epoxide	0.0215	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	108	56-132		
gamma-Chlordane	0.0207	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	104	53-128		
Endosulfan I	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	54-128		
alpha-Chlordane	0.0213	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	107	56-123		
Dieldrin	0.0247	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	124	56-134		
4,4-DDE	0.0245	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	123	48-131		
Endrin	0.0245	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	123	30-202		
Endosulfan II	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	50-156		
4,4-DDD	0.0238	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	120	56-151		
Endrin Aldehyde	0.0259	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	130	58-134		
Endosulfan Sulfate	0.0273	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	137	37-177		
4,4-DDT	0.0183	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	92	5-212		



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Matrix Spike (B401117-MS1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 10:58			
Endrin Ketone	0.0258	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	130	55-166			
Methoxychlor	0.0364	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	183	49-191			
Surrogate: TCMX	0.00705			mg/kg dry	0.00996		71	47-122			
Surrogate: Decachlorobiphenyl	0.0118			mg/kg dry	0.00996		118	23-150			
Matrix Spike Dup (B401117-MSD1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 11:32			
alpha-BHC	0.0250	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	126	47-126	8	25	
beta-BHC	0.0239	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	120	56-149	8	25	
gamma-BHC	0.0250	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	125	56-131	5	25	
delta-BHC	0.0183	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	92	55-139	35	25	J2
Heptachlor	0.0240	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	121	57-136	11	25	
Aldrin	0.0232	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	117	55-116	5	25	J2
Heptachlor Epoxide	0.0236	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	119	56-132	9	25	
gamma-Chlordane	0.0227	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	114	53-128	9	25	
Endosulfan I	0.0240	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	121	54-128	8	25	
alpha-Chlordane	0.0231	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	116	56-123	8	25	
Dieldrin	0.0270	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	136	56-134	9	25	J2
4,4-DDE	0.0261	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	131	48-131	6	25	
Endrin	0.0270	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	135	30-202	9	25	
Endosulfan II	0.0238	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	120	50-156	7	25	
4,4-DDD	0.0274	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	137	56-151	14	25	
Endrin Aldehyde	0.0239	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	120	58-134	8	25	
Endosulfan Sulfate	0.0283	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	142	37-177	4	25	
4,4-DDT	0.0192	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	96	5-212	5	25	
Endrin Ketone	0.0269	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	135	55-166	4	25	
Methoxychlor	0.0379	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	190	49-191	4	25	
Surrogate: TCMX	0.00768			mg/kg dry	0.00996		77	47-122			
Surrogate: Decachlorobiphenyl	0.0112			mg/kg dry	0.00996		112	23-150			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Blank (B401118-BLK1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 22:40				
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L							
beta-BHC	0.00200 U	0.0500	0.00200	ug/L							
gamma-BHC	0.00400 U	0.100	0.00400	ug/L							
delta-BHC	0.00300 U	0.0500	0.00300	ug/L							
Heptachlor	0.00300 U	0.0500	0.00300	ug/L							
Aldrin	0.00200 U	0.0500	0.00200	ug/L							
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L							
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Endosulfan I	0.00200 U	0.100	0.00200	ug/L							
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Dieldrin	0.00200 U	0.100	0.00200	ug/L							
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L							
Endrin	0.00200 U	0.200	0.00200	ug/L							
Endosulfan II	0.00300 U	0.100	0.00300	ug/L							
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L							
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L							
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L							
4,4-DDT	0.00400 U	0.200	0.00400	ug/L							
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L							
Methoxychlor	0.00400 U	0.200	0.00400	ug/L							
Chlordane	0.150 U	1.00	0.150	ug/L							
Toxaphene	0.520 U	1.00	0.520	ug/L							

Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0240			ug/L	0.0250		96	67-116			

LCS (B401118-BS1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:14				
alpha-BHC	0.0420	0.0500	0.00200	ug/L	0.0500		84	52-128			I
beta-BHC	0.0520	0.0500	0.00200	ug/L	0.0500		104	56-127			
gamma-BHC	0.0500	0.100	0.00400	ug/L	0.0500		100	45-140			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500		90	46-142			I
Heptachlor	0.0520	0.0500	0.00300	ug/L	0.0500		104	48-147			
Aldrin	0.0430	0.0500	0.00200	ug/L	0.0500		86	50-121			I
Heptachlor Epoxide	0.0490	0.0800	0.00200	ug/L	0.0500		98	45-133			I
gamma-Chlordane	0.0470	0.800	0.00300	ug/L	0.0500		94	53-117			I



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

LCS (B401118-BS1)				Prepared: 21-Jan-14 10:39			Analyzed: 21-Jan-14 23:14				
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500		92	54-129			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500		88	51-117			I
Dieldrin	0.0480	0.100	0.00200	ug/L	0.0500		96	48-137			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500		96	48-127			I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500		96	54-140			I
Endosulfan II	0.0460	0.100	0.00300	ug/L	0.0500		92	45-138			I
4,4-DDD	0.0490	0.0800	0.00300	ug/L	0.0500		98	39-156			I
Endrin Aldehyde	0.0510	0.200	0.00300	ug/L	0.0500		102	47-141			I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500		96	49-141			I
4,4-DDT	0.0560	0.200	0.00400	ug/L	0.0500		112	38-162			I
Endrin Ketone	0.0490	0.200	0.00200	ug/L	0.0500		98	44-159			I
Methoxychlor	0.0620	0.200	0.00400	ug/L	0.0500		124	45-164			I

Surrogate: TCMX	0.0180			ug/L	0.0250		72	51-116			
Surrogate: Decachlorobiphenyl	0.0230			ug/L	0.0250		92	67-116			

Matrix Spike (B401118-MS1)				Source: 1312115-02			Prepared: 21-Jan-14 10:39			Analyzed: 21-Jan-14 23:47	
alpha-BHC	0.0440	0.0500	0.00200	ug/L	0.0500	0.00200 U	88	51-108			I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117			I
gamma-BHC	0.0490	0.100	0.00400	ug/L	0.0500	0.00400 U	98	53-119			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500	0.00300 U	90	51-126			I
Heptachlor	0.0490	0.0500	0.00300	ug/L	0.0500	0.00300 U	98	41-126			I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111			I
Heptachlor Epoxide	0.0470	0.0800	0.00200	ug/L	0.0500	0.00200 U	94	56-116			I
gamma-Chlordane	0.0460	0.800	0.00300	ug/L	0.0500	0.00300 U	92	57-116			I
Endosulfan I	0.0440	0.100	0.00200	ug/L	0.0500	0.00200 U	88	58-113			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118			I
Dieldrin	0.0450	0.100	0.00200	ug/L	0.0500	0.00200 U	90	59-120			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	58-121			I
Endrin	0.0460	0.200	0.00200	ug/L	0.0500	0.00200 U	92	57-125			I
Endosulfan II	0.0470	0.100	0.00300	ug/L	0.0500	0.00300 U	94	59-121			I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123			I
Endrin Aldehyde	0.0500	0.200	0.00300	ug/L	0.0500	0.00300 U	100	56-120			I
Endosulfan Sulfate	0.0490	0.100	0.00300	ug/L	0.0500	0.00300 U	98	53-133			I
4,4-DDT	0.0570	0.200	0.00400	ug/L	0.0500	0.00400 U	114	47-132			I



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Matrix Spike (B401118-MS1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:47				
Endrin Ketone	0.0450	0.200	0.00200	ug/L	0.0500	0.00200 U	90	50-140			I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137			I
Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0270			ug/L	0.0250		108	67-116			
Matrix Spike Dup (B401118-MSD1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 22-Jan-14 00:21				
alpha-BHC	0.0430	0.0500	0.00200	ug/L	0.0500	0.00200 U	86	51-108	2	25	I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117	0	25	I
gamma-BHC	0.0510	0.100	0.00400	ug/L	0.0500	0.00400 U	102	53-119	4	25	I
delta-BHC	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	51-126	6	25	I
Heptachlor	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	41-126	2	25	I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111	0	25	I
Heptachlor Epoxide	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	56-116	2	25	I
gamma-Chlordane	0.0450	0.800	0.00300	ug/L	0.0500	0.00300 U	90	57-116	2	25	I
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	58-113	4	25	I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118	0	25	I
Dieldrin	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	59-120	2	25	I
4,4-DDE	0.0440	0.0800	0.00200	ug/L	0.0500	0.00200 U	88	58-121	9	25	I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500	0.00200 U	96	57-125	4	25	I
Endosulfan II	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	59-121	2	25	I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123	0	25	I
Endrin Aldehyde	0.0530	0.200	0.00300	ug/L	0.0500	0.00300 U	106	56-120	6	25	I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	53-133	2	25	I
4,4-DDT	0.0550	0.200	0.00400	ug/L	0.0500	0.00400 U	110	47-132	4	25	I
Endrin Ketone	0.0500	0.200	0.00200	ug/L	0.0500	0.00200 U	100	50-140	11	25	I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137	0	25	I
Surrogate: TCMX	0.0200			ug/L	0.0250		80	51-116			
Surrogate: Decachlorobiphenyl	0.0260			ug/L	0.0250		104	67-116			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401097 - Prep Method: 3550B

Blank (B401097-BLK1)				Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 20:16			
PCB 1016	0.00160 U	0.0500	0.00160	mg/kg wet	0.0333		125	28-148		
PCB 1221	0.00630 U	0.0500	0.00630	mg/kg wet						
PCB 1232	0.00230 U	0.0500	0.00230	mg/kg wet						
PCB 1242	0.00160 U	0.0500	0.00160	mg/kg wet						
PCB 1248	0.00321 U	0.0500	0.00321	mg/kg wet						
PCB 1254	0.00280 U	0.0500	0.00280	mg/kg wet						
PCB 1260	0.00170 U	0.0500	0.00170	mg/kg wet						
Surrogate: Decachlorobiphenyl		0.0416		mg/kg wet	0.0333		125	28-148		
LCS (B401097-BS1)				Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 20:48			
PCB 1016	0.168	0.0500	0.00160	mg/kg wet	0.167		101	38-112		
PCB 1260	0.172	0.0500	0.00170	mg/kg wet	0.167		103	41-128		
Surrogate: Decachlorobiphenyl		0.0409		mg/kg wet	0.0333		123	28-148		
Matrix Spike (B401097-MS1)		Source: 1312115-01		Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 21:19			
PCB 1016	0.224	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	105	33-127		
PCB 1260	0.237	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	112	10-158		
Surrogate: Decachlorobiphenyl		0.0592		mg/kg dry	0.0426		139	28-148		
Matrix Spike Dup (B401097-MSD1)		Source: 1312115-01		Prepared: 17-Jan-14 09:20			Analyzed: 17-Jan-14 21:50			
PCB 1016	0.188	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	88	33-127	18	25
PCB 1260	0.194	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	91	10-158	20	25
Surrogate: Decachlorobiphenyl		0.0461		mg/kg dry	0.0426		108	28-148		

Batch: B401119 - Prep Method: 3510C

Blank (B401119-BLK1)				Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:00				
PCB 1016	0.163 U	0.500	0.163	ug/L							
PCB 1221	0.108 U	0.500	0.108	ug/L							
PCB 1232	0.141 U	0.500	0.141	ug/L							
PCB 1242	0.191 U	0.500	0.191	ug/L							
PCB 1248	0.133 U	0.500	0.133	ug/L							
PCB 1254	0.0950 U	0.500	0.0950	ug/L							
PCB 1260	0.144 U	0.500	0.144	ug/L							
Surrogate: Decachlorobiphenyl				0.644	ug/L	1.00	64	26-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401119 - Prep Method: 3510C

LCS (B401119-BS1)				Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:32			
PCB 1016	4.25	0.500	0.163	ug/L	5.00		85	55-113		
PCB 1260	4.54	0.500	0.144	ug/L	5.00		91	66-103		
Surrogate: Decachlorobiphenyl	0.540			ug/L	1.00		54	26-105		
Matrix Spike (B401119-MS1)		Source: 1312115-02		Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:03			
PCB 1016	4.76	0.500	0.163	ug/L	5.00	0.163 U	95	55-113		
PCB 1260	4.66	0.500	0.144	ug/L	5.00	0.144 U	93	66-103		
Surrogate: Decachlorobiphenyl	0.415			ug/L	1.00		42	26-105		
Matrix Spike Dup (B401119-MSD1)		Source: 1312115-02		Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:34			
PCB 1016	4.64	0.500	0.163	ug/L	5.00	0.163 U	93	55-113	3	25
PCB 1260	4.73	0.500	0.144	ug/L	5.00	0.144 U	95	66-103	1	25
Surrogate: Decachlorobiphenyl	0.461			ug/L	1.00		46	26-105		



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401095 - Prep Method: 3510C

Blank (B401095-BLK1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 09:44				
FL-PRO (C8-C40)	171 U	400	171	ug/L							
Surrogate: o-Terphenyl	76.0			ug/L	100		76	82-142			J2
Surrogate: n-Nonatriacontane	528			ug/L	600		88	42-193			
LCS (B401095-BS1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:19				
FL-PRO (C8-C40)	1200	400	171	ug/L	1410		85	55-118			
Surrogate: o-Terphenyl	79.0			ug/L	100		79	82-142			J2
Surrogate: n-Nonatriacontane	501			ug/L	600		84	42-193			
Matrix Spike (B401095-MS1)					Source: 1311125-07		Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:55		
FL-PRO (C8-C40)	4860	400	171	ug/L	1410	4660	14	41-101			J2
Surrogate: o-Terphenyl	71.0			ug/L	100		71	82-142			J2
Surrogate: n-Nonatriacontane	468			ug/L	600		78	42-193			
Matrix Spike Dup (B401095-MSD1)					Source: 1311125-07		Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 11:30		
FL-PRO (C8-C40)	4760	400	171	ug/L	1410	4660	7	41-101	2	20	J2
Surrogate: o-Terphenyl	72.0			ug/L	100		72	82-142			J2
Surrogate: n-Nonatriacontane	490			ug/L	600		82	42-193			

Batch: B401104 - Prep Method: 3550B

Blank (B401104-BLK1)					Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 13:55				
FL-PRO (C8-C40)	2.64 U	4.00	2.64	mg/kg wet							
Surrogate: o-Terphenyl	2.30			mg/kg wet	3.33		69	62-109			
Surrogate: n-Nonatriacontane	14.9			mg/kg wet	20.0		74	60-118			
LCS (B401104-BS1)					Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 14:25				
FL-PRO (C8-C40)	37.2	4.00	2.64	mg/kg wet	47.0		79	63-153			
Surrogate: o-Terphenyl	2.41			mg/kg wet	3.33		72	62-109			
Surrogate: n-Nonatriacontane	15.6			mg/kg wet	20.0		78	60-118			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401104 - Prep Method: 3550B

Matrix Spike (B401104-MS1)		Source: 1401055-01			Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 15:37				
FL-PRO (C8-C40)	28.5	4.32	2.85	mg/kg dry	50.8	2.85 U	56	62-204			J2
Surrogate: o-Terphenyl	1.66			mg/kg dry	3.60		46	62-109			J2
Surrogate: n-Nonatriacontane	11.4			mg/kg dry	21.6		53	60-118			J2
Matrix Spike Dup (B401104-MSD1)		Source: 1401055-01			Prepared: 20-Jan-14 10:15		Analyzed: 20-Jan-14 16:14				
FL-PRO (C8-C40)	36.0	4.32	2.85	mg/kg dry	50.8	2.85 U	71	62-204	23	25	
Surrogate: o-Terphenyl	2.19			mg/kg dry	3.60		61	62-109			J2
Surrogate: n-Nonatriacontane	14.8			mg/kg dry	21.6		68	60-118			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401099 - Prep Method: 3050B

Blank (B401099-BLK1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:16				
Arsenic	0.220 U	1.00	0.220	mg/kg wet							
Cadmium	0.0970 U	0.500	0.0970	mg/kg wet							
Chromium	0.330 U	1.00	0.330	mg/kg wet							
Lead	0.240 U	1.00	0.240	mg/kg wet							
LCS (B401099-BS1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:19				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		101	80-120			
Cadmium	25.1	0.500	0.0970	mg/kg wet	25.0		101	80-120			
Chromium	24.7	1.00	0.330	mg/kg wet	25.0		99	80-120			
Lead	25.6	1.00	0.240	mg/kg wet	25.0		102	80-120			
LCS Dup (B401099-BSD1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:22				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		100	80-120	0.1	20	
Cadmium	25.2	0.500	0.0970	mg/kg wet	25.0		101	80-120	0.1	20	
Chromium	24.4	1.00	0.330	mg/kg wet	25.0		98	80-120	1	20	
Lead	25.5	1.00	0.240	mg/kg wet	25.0		102	80-120	0.2	20	
Matrix Spike (B401099-MS1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:25				
Arsenic	52.4	1.28	0.281	mg/kg dry	63.8	0.281 U	82	75-125			
Cadmium	48.7	0.638	0.124	mg/kg dry	63.8	0.124 U	76	75-125			
Chromium	48.4	1.28	0.421	mg/kg dry	63.8	0.421 U	76	75-125			
Lead	47.9	1.28	0.306	mg/kg dry	63.8	0.306 U	75	75-125			
Matrix Spike Dup (B401099-MSD1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:28				
Arsenic	55.0	1.28	0.281	mg/kg dry	63.8	0.281 U	86	75-125	5	20	
Cadmium	51.9	0.638	0.124	mg/kg dry	63.8	0.124 U	81	75-125	6	20	
Chromium	52.7	1.28	0.421	mg/kg dry	63.8	0.421 U	83	75-125	9	20	
Lead	51.6	1.28	0.306	mg/kg dry	63.8	0.306 U	81	75-125	7	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401107 - Prep Method: 3010A

Blank (B401107-BLK1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:31				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401107-BS1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:35				
Arsenic	497	10.0	4.00	ug/L	500		99	80-120			
Cadmium	497	5.00	1.00	ug/L	500		99	80-120			
Chromium	489	10.0	4.00	ug/L	500		98	80-120			
Lead	494	10.0	4.00	ug/L	500		99	80-120			
LCS Dup (B401107-BSD1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:38				
Arsenic	495	10.0	4.00	ug/L	500		99	80-120	0.4	20	
Cadmium	495	5.00	1.00	ug/L	500		99	80-120	0.4	20	
Chromium	490	10.0	4.00	ug/L	500		98	80-120	0.3	20	
Lead	489	10.0	4.00	ug/L	500		98	80-120	1	20	
Matrix Spike (B401107-MS1)				Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:41	
Arsenic	541	10.0	4.00	ug/L	500	6.00	107	75-125			
Cadmium	493	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125			
Lead	472	10.0	4.00	ug/L	500	4.00 U	94	75-125			
Matrix Spike Dup (B401107-MSD1)				Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:44	
Arsenic	540	10.0	4.00	ug/L	500	6.00	107	75-125	0.2	20	
Cadmium	496	5.00	1.00	ug/L	500	1.00 U	99	75-125	0.5	20	
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125	0.02	20	
Lead	476	10.0	4.00	ug/L	500	4.00 U	95	75-125	0.8	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401109 - Prep Method: 3010A

Blank (B401109-BLK1)					Prepared: 20-Jan-14 14:32		Analyzed: 21-Jan-14 12:32				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401109-BS1)					Prepared: 20-Jan-14 14:32		Analyzed: 21-Jan-14 12:35				
Arsenic	487	10.0	4.00	ug/L	500		97	80-120			
Cadmium	491	5.00	1.00	ug/L	500		98	80-120			
Chromium	482	10.0	4.00	ug/L	500		96	80-120			
Lead	490	10.0	4.00	ug/L	500		98	80-120			
Matrix Spike (B401109-MS1)					Source: 1312092-01		Prepared: 20-Jan-14 14:32		Analyzed: 21-Jan-14 12:41		
Arsenic	517	10.0	4.00	ug/L	500	8.80	102	75-125			
Cadmium	446	5.00	1.00	ug/L	500	1.00 U	89	75-125			
Chromium	484	10.0	4.00	ug/L	500	4.00 U	97	75-125			
Lead	408	10.0	4.00	ug/L	500	4.00 U	82	75-125			
Matrix Spike Dup (B401109-MSD1)					Source: 1312092-01		Prepared: 20-Jan-14 14:32		Analyzed: 21-Jan-14 12:45		
Arsenic	519	10.0	4.00	ug/L	500	8.80	102	75-125	0.4	20	
Cadmium	452	5.00	1.00	ug/L	500	1.00 U	90	75-125	1	20	
Chromium	480	10.0	4.00	ug/L	500	4.00 U	96	75-125	0.8	20	
Lead	415	10.0	4.00	ug/L	500	4.00 U	83	75-125	2	20	



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

SM 2540G - % Dry Solids - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401098 - Prep Method: % Solids

Duplicate (B401098-DUP1)		Source: 1312115-01			Prepared: 17-Jan-14 10:00		Analyzed: 17-Jan-14 16:52				
% Dry Solids	79.3	0.100		% by Weight		78.3			1	20	
Duplicate (B401098-DUP2)		Source: 1401070-01			Prepared: 17-Jan-14 10:00		Analyzed: 17-Jan-14 16:54				
% Dry Solids	91.3	0.100		% by Weight		90.7			0.7	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 2: 7-Eleven #29301
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:41
Lab Work Order (COC): 1312115

Notes and Definitions

J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
I	Result is between LOQ/PQL and LOD/MDL.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



Lakeland Laboratories, LLC

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Page 1 of 1

CHAIN OF CUSTODY



Lab Work Order Number:

1312115

Client Name CB&I (Tampa)		Project Name SR679 Pinellas Bayway Structure E		Requested Analyses 6010 4 RCRA Metals FLPRO 8081B::8082A::8270D-BNA 8260C-Full 8260C-Full BNA::FLPRO::SM2540G 6010 4 RCRA Metals Lab Filtered										Requested Turn Around FDEP Facility No.: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) 5 Expedited (days) Requested Due Date	
Project Manager Nathan Miller		Project Number [none] 150929													
Client Address 725 U.S. Highway 301 South		Project Location SITE #2 Ste: 7-Eleven #29301													
City Tampa		PO Number													
State/Zip FL, 33619		Shipped By													
Phone 813-612-3667		Fax (813) 626-1663													
Sampler Jaime Pena		Tracker Number													
		Sampler Signature 													
Preservation Code															
Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type (Grab / Composite)	Matrix Code	Container Count	HNO3	H2SO4	ICE	ICE+	ICE-	ICE	ICE		Sample Comments	Lab ID
151025841223	11/15/14	1020	G	SO	4					3	1				1312115-01
2			G	GW	9	1	1	3	3			1	(JP)		1312115-02
MS			G	GW	4	0	1	3	0	(JP)				Matrix Spike	1312115-03
MSD			G	GW	4	0	1	3	0	(JP)				Matrix Spike Dupe	1312115-04
Item Numbers 1-4	Relinquished By 		Received By Carrier		Date/Time 12-19-13 8:35		Sample Kit Prepared By NCG		Date/Time 12-19-13 8:35						
Item Numbers	Relinquished By Carrier		Received By 		Date/Time 11/13/14 1500		Comments								
Item Numbers	Relinquished By 		Received By CB&I		Date/Time 11/15/14 1400										
Item Numbers 1	Relinquished By CB&I		Received By 		Date/Time 1-16-14 1145										
Cooler Numbers and Temperatures 2.2 wt					Total # of Containers (JP) 4		Please fill MS and MSD containers for QC								

Matrix Codes: GW=Ground Water, SO=Soil

Preserv. Codes: HNO3=[Group Analysis], ICE=-Frozen -10°C+MeOH, H2SO4=pH<2 w/ H2SO4+Store 4°C, ICE=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace,



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Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

24 January 2014
Lab Work Order (COC): 1312116

RE: SR679 Pinellas Bayway Structure E
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **16-Jan-14 17:30**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB#4 @ 9' bls	1312116-01	Soil	14-Jan-14 11:20	15-Jan-14 11:30
SB#8 @ 4' bls	1312116-02	Soil	14-Jan-14 14:05	15-Jan-14 11:30
TW-1	1312116-03	Ground Water	16-Jan-14 10:49	16-Jan-14 17:30



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 15-Jan-14 18:59			
EPA Method 8260C - VOC/FULL					Analyzed: 15-Jan-14 18:59		Batch: B401092	
Dichlorodifluoromethane	0.00172 U	0.00209	0.00172	mg/kg dry	0.98			
Chloromethane	0.00153 U	0.00209	0.00153	mg/kg dry	0.98			
Vinyl Chloride	0.00136 U	0.00209	0.00136	mg/kg dry	0.98			
Bromomethane	0.00225 U	0.00522	0.00225	mg/kg dry	0.98			
Chloroethane	0.000902 U	0.00209	0.000902	mg/kg dry	0.98			
Trichlorofluoromethane	0.00131 U	0.00209	0.00131	mg/kg dry	0.98			
1,1-Dichloroethene	0.00134 U	0.00209	0.00134	mg/kg dry	0.98			
Acetone	0.00382 U	0.0522	0.00382	mg/kg dry	0.98			
Iodomethane (Methyl Iodide)	0.0118 U	0.0522	0.0118	mg/kg dry	0.98			
Carbon Disulfide	0.000695 U	0.0104	0.000695	mg/kg dry	0.98			
Methylene Chloride	0.0154 U	0.0209	0.0154	mg/kg dry	0.98			
trans-1,2-Dichloroethene	0.00132 U	0.00209	0.00132	mg/kg dry	0.98			
Methyl tert-Butyl Ether (MTBE)	0.00132 U	0.00209	0.00132	mg/kg dry	0.98			
1,1-Dichloroethane	0.00110 U	0.00209	0.00110	mg/kg dry	0.98			
Vinyl Acetate	0.0101 U	0.0104	0.0101	mg/kg dry	0.98			
2,2-Dichloropropane	0.00161 U	0.00209	0.00161	mg/kg dry	0.98			
cis-1,2-Dichloroethene	0.00133 U	0.00209	0.00133	mg/kg dry	0.98			
2-Butanone (MEK)	0.00500 U	0.0104	0.00500	mg/kg dry	0.98			
Bromochloromethane	0.000803 U	0.00209	0.000803	mg/kg dry	0.98			
Chloroform	0.000679 U	0.00209	0.000679	mg/kg dry	0.98			
1,1,1-Trichloroethane	0.00119 U	0.00209	0.00119	mg/kg dry	0.98			
Carbon Tetrachloride	0.00152 U	0.00209	0.00152	mg/kg dry	0.98			
1,1-Dichloropropene	0.00158 U	0.00209	0.00158	mg/kg dry	0.98			
Benzene	0.00129 U	0.00209	0.00129	mg/kg dry	0.98			
1,2-Dichloroethane	0.000901 U	0.00209	0.000901	mg/kg dry	0.98			
Trichloroethene (TCE)	0.00134 U	0.00209	0.00134	mg/kg dry	0.98			
1,2-Dichloropropane	0.00113 U	0.00209	0.00113	mg/kg dry	0.98			
Dibromomethane	0.000715 U	0.00209	0.000715	mg/kg dry	0.98			
Bromodichloromethane	0.000571 U	0.00209	0.000571	mg/kg dry	0.98			
2-Chloroethyl Vinyl Ether	0.00372 U	0.0104	0.00372	mg/kg dry	0.98			
cis-1,3-Dichloropropene	0.00105 U	0.00209	0.00105	mg/kg dry	0.98			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 15-Jan-14 18:59			
EPA Method 8260C - VOC/FULL					Analyzed: 15-Jan-14 18:59		Batch: B401092	
4-Methyl-2-Pentanone (MIBK)	0.00507 U	0.0209	0.00507	mg/kg dry	0.98			
2-Hexanone	0.00577 U	0.0209	0.00577	mg/kg dry	0.98			
Toluene	0.00126 U	0.00209	0.00126	mg/kg dry	0.98			
trans-1,3-Dichloropropene	0.00105 U	0.00209	0.00105	mg/kg dry	0.98			
1,1,2-Trichloroethane	0.000840 U	0.00209	0.000840	mg/kg dry	0.98			
Tetrachloroethene (PCE)	0.000869 U	0.0104	0.000869	mg/kg dry	0.98			
1,3-Dichloropropane	0.000837 U	0.00209	0.000837	mg/kg dry	0.98			
Dibromochloromethane	0.000538 U	0.0104	0.000538	mg/kg dry	0.98			
1,2-Dibromoethane (EDB)	0.000900 U	0.00209	0.000900	mg/kg dry	0.98			
Chlorobenzene	0.00100 U	0.00209	0.00100	mg/kg dry	0.98			
1,1,1,2-Tetrachloroethane	0.000848 U	0.00209	0.000848	mg/kg dry	0.98			
Ethylbenzene	0.00161 U	0.00209	0.00161	mg/kg dry	0.98			
m- & p-Xylenes	0.00444 U	0.00522	0.00444	mg/kg dry	0.98			
o-Xylene	0.00195 U	0.00209	0.00195	mg/kg dry	0.98			
Styrene	0.00163 U	0.00209	0.00163	mg/kg dry	0.98			
Bromoform	0.00105 U	0.00209	0.00105	mg/kg dry	0.98			
Isopropylbenzene (Cumene)	0.00199 U	0.00209	0.00199	mg/kg dry	0.98			
Bromobenzene	0.00111 U	0.00209	0.00111	mg/kg dry	0.98			
1,1,2,2-Tetrachloroethane	0.00105 U	0.00209	0.00105	mg/kg dry	0.98			
1,2,3-Trichloropropane	0.00171 U	0.00209	0.00171	mg/kg dry	0.98			
n-Propylbenzene	0.00190 U	0.00522	0.00190	mg/kg dry	0.98			
2-Chlorotoluene	0.00165 U	0.00209	0.00165	mg/kg dry	0.98			
4-Chlorotoluene	0.00173 U	0.00209	0.00173	mg/kg dry	0.98			
1,3,5-Trimethylbenzene	0.00184 U	0.00209	0.00184	mg/kg dry	0.98			
tert-Butyl Benzene	0.00193 U	0.00209	0.00193	mg/kg dry	0.98			
1,2,4-Trimethylbenzene	0.00276 U	0.00522	0.00276	mg/kg dry	0.98			
sec-Butyl Benzene	0.00189 U	0.00209	0.00189	mg/kg dry	0.98			
1,3-Dichlorobenzene	0.00140 U	0.00209	0.00140	mg/kg dry	0.98			
p-Isopropyltoluene	0.00170 U	0.00209	0.00170	mg/kg dry	0.98			
1,4-Dichlorobenzene	0.00131 U	0.00209	0.00131	mg/kg dry	0.98			
1,2-Dichlorobenzene	0.00146 U	0.00209	0.00146	mg/kg dry	0.98			



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 18:59								
Analyzed: 15-Jan-14 18:59 Batch: B401092								
EPA Method 8260C - VOC/FULL								
n-Butyl Benzene	0.00220 U	0.00522	0.00220	mg/kg dry	0.98			
1,2-Dibromo-3-Chloropropane	0.00114 U	0.00522	0.00114	mg/kg dry	0.98			
1,2,4-Trichlorobenzene	0.00206 U	0.00209	0.00206	mg/kg dry	0.98			
Naphthalene	0.00274 U	0.00418	0.00274	mg/kg dry	0.98			
Hexachlorobutadiene	0.00190 U	0.00313	0.00190	mg/kg dry	0.98			
1,2,3-Trichlorobenzene	0.000189 U	0.00209	0.000189	mg/kg dry	0.98			
Surrogate: Dibromofluoromethane	51.2			ug/kg		102 %	80-120	
Surrogate: 1,2-Dichloroethane-d4	48.3			ug/kg		97 %	80-120	
Surrogate: Toluene-d8	49.8			ug/kg		100 %	80-120	
Surrogate: 4-Bromofluorobenzene	47.8			ug/kg		96 %	68-120	
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:21 Batch: B401079								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	0.0245 U	0.0533	0.0245	mg/kg dry	1			
1,2,4-Trichlorobenzene	0.0231 U	0.0533	0.0231	mg/kg dry	1			
1,2-Dichlorobenzene	0.0341 U	0.0533	0.0341	mg/kg dry	1			
1,3-Dichlorobenzene	0.0639 U	0.107	0.0639	mg/kg dry	1			
1,4-Dichlorobenzene	0.0555 U	0.107	0.0555	mg/kg dry	1			
1-Methylnaphthalene	0.0240 U	0.0533	0.0240	mg/kg dry	1			
2,4,5-Trichlorophenol	0.0592 U	0.107	0.0592	mg/kg dry	1			
1-Chloronaphthalene	0.0256 U	0.0533	0.0256	mg/kg dry	1			
2,4,6-Trichlorophenol	0.0784 U	0.107	0.0784	mg/kg dry	1			
1-Naphthylamine	0.0660 U	0.160	0.0660	mg/kg dry	1			
2,4-Dichlorophenol	0.0597 U	0.107	0.0597	mg/kg dry	1			
2,3,4,6-Tetrachlorophenol	0.0479 U	0.107	0.0479	mg/kg dry	1			
2,4-Dimethylphenol	0.0569 U	0.213	0.0569	mg/kg dry	1			
2,4-Dinitrophenol	0.111 U	0.213	0.111	mg/kg dry	1			
2,4-Dinitrotoluene	0.0130 U	0.0533	0.0130	mg/kg dry	1			
2,6-Dichlorophenol	0.0423 U	0.0533	0.0423	mg/kg dry	1			
2-Chloronaphthalene	0.0246 U	0.0533	0.0246	mg/kg dry	1			
2-Chlorophenol	0.0757 U	0.107	0.0757	mg/kg dry	1			



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Project Number: 150929
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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls

1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:21								
Batch: B401079								
EPA Method 8270D - BNAs								
2-Methylnaphthalene	0.0334 U	0.0533	0.0334	mg/kg dry	1			
2,6-Dinitrotoluene	0.0138 U	0.0533	0.0138	mg/kg dry	1			
2-Methylphenol	0.0425 U	0.0533	0.0425	mg/kg dry	1			
2-Nitroaniline	0.0394 U	0.0533	0.0394	mg/kg dry	1			
2-Nitrophenol	0.0389 U	0.213	0.0389	mg/kg dry	1			
3,3-Dichlorobenzidine	0.177 U	0.213	0.177	mg/kg dry	1			
3/4-Methylphenol	0.0535 U	0.107	0.0535	mg/kg dry	1			
3-Nitroaniline	0.0356 U	0.107	0.0356	mg/kg dry	1			
4-Bromophenyl-Phenylether	0.0372 U	0.0533	0.0372	mg/kg dry	1			
4-Chloro-3-Methylphenol	0.0562 U	0.107	0.0562	mg/kg dry	1			
2-Naphthylamine	0.0330 U	0.0533	0.0330	mg/kg dry	1			
4-Chloroaniline	0.0362 U	0.107	0.0362	mg/kg dry	1			
4-Chlorophenyl-Phenylether	0.0232 U	0.0533	0.0232	mg/kg dry	1			
4-Nitroaniline	0.0250 U	0.107	0.0250	mg/kg dry	1			
4-Nitrophenol	0.124 U	0.213	0.124	mg/kg dry	1			
Acenaphthene	0.0343 U	0.0533	0.0343	mg/kg dry	1			
4,6-Dinitro-2-Methylphenol	0.0927 U	0.213	0.0927	mg/kg dry	1			
Acenaphthylene	0.0114 U	0.0533	0.0114	mg/kg dry	1			
Anthracene	0.0169 U	0.0533	0.0169	mg/kg dry	1			
Benzo(a)anthracene	0.0166 U	0.0533	0.0166	mg/kg dry	1			
Benzo(a)pyrene	0.0158 U	0.0533	0.0158	mg/kg dry	1			
Benzo(b)fluoranthene	0.0199 U	0.0533	0.0199	mg/kg dry	1			
4-Dimethylaminoazobenzene	0.0213 U	0.0533	0.0213	mg/kg dry	1			
Benzo(g,h,i)perylene	0.0238 U	0.0533	0.0238	mg/kg dry	1			
Benzo(k)fluoranthene	0.0278 U	0.0533	0.0278	mg/kg dry	1			
Benzyl alcohol	0.0413 U	0.0533	0.0413	mg/kg dry	1			
bis(2-Chloroethoxy)methane	0.0257 U	0.0533	0.0257	mg/kg dry	1			
Bis(2-Chloroethyl)ether	0.0396 U	0.0533	0.0396	mg/kg dry	1			
Bis(2-chloroisopropyl)ether	0.0554 U	0.107	0.0554	mg/kg dry	1			
Bis(2-Ethylhexyl)phthalate	0.0159 U	0.0533	0.0159	mg/kg dry	1			
Aniline	0.0565 U	0.107	0.0565	mg/kg dry	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
EPA Method 8270D - BNAs					Analyzed: 15-Jan-14 21:21		Batch: B401079	
Butylbenzylphthalate	0.0264 U	0.0533	0.0264	mg/kg dry	1			
Carbazole	0.0274 U	0.0533	0.0274	mg/kg dry	1			
Azobenzene	0.0213 U	0.0533	0.0213	mg/kg dry	1			
Chrysene	0.0210 U	0.0533	0.0210	mg/kg dry	1			
Benzidine	0.183 U	0.213	0.183	mg/kg dry	1			
Dibenzo(a,h)anthracene	0.0169 U	0.0533	0.0169	mg/kg dry	1			
Dibenzofuran	0.0272 U	0.0533	0.0272	mg/kg dry	1			
Diethylphthalate	0.0174 U	0.0533	0.0174	mg/kg dry	1			
Dimethylphthalate	0.0357 U	0.0533	0.0357	mg/kg dry	1			
Di-n-Butyl Phthalate	0.0219 U	0.0533	0.0219	mg/kg dry	1			
Di-n-Octyl Phthalate	0.0208 U	0.0533	0.0208	mg/kg dry	1			
Fluoranthene	0.0158 U	0.0533	0.0158	mg/kg dry	1			
Fluorene	0.0228 U	0.0533	0.0228	mg/kg dry	1			
Hexachlorobenzene	0.0413 U	0.0533	0.0413	mg/kg dry	1			
Hexachlorobutadiene	0.0413 U	0.0533	0.0413	mg/kg dry	1			
Hexachlorocyclopentadiene	0.0186 U	0.0533	0.0186	mg/kg dry	1			
Hexachloroethane	0.0266 U	0.0533	0.0266	mg/kg dry	1			
Indeno(1,2,3-cd)pyrene	0.0254 U	0.0533	0.0254	mg/kg dry	1			
Isophorone	0.0239 U	0.0533	0.0239	mg/kg dry	1			
Naphthalene	0.0225 U	0.0533	0.0225	mg/kg dry	1			
Nitrobenzene	0.0419 U	0.0533	0.0419	mg/kg dry	1			
N-Nitrosodi-n-butylamine	0.0237 U	0.0533	0.0237	mg/kg dry	1			
N-Nitroso-di-n-propylamine	0.0458 U	0.0533	0.0458	mg/kg dry	1			
N-Nitrosodiphenylamine	0.0337 U	0.0533	0.0337	mg/kg dry	1			
Pentachlorophenol	0.0971 U	0.213	0.0971	mg/kg dry	1			
Phenanthrene	0.0127 U	0.0533	0.0127	mg/kg dry	1			
Phenol	0.0576 U	0.107	0.0576	mg/kg dry	1			
Pyrene	0.0214 U	0.0533	0.0214	mg/kg dry	1			
N-Nitrosodiethylamine	0.0490 U	0.0533	0.0490	mg/kg dry	1			
N-Nitrosodimethylamine	0.0511 U	0.0533	0.0511	mg/kg dry	1			
N-Nitrosomethylethylamine	0.0373 U	0.0533	0.0373	mg/kg dry	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:21 Batch: B401079								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.0394 U	0.0533	0.0394	mg/kg dry	1			
N-Nitrosopiperidine	0.0373 U	0.0533	0.0373	mg/kg dry	1			
N-Nitrosopyrrolidine	0.0288 U	0.0533	0.0288	mg/kg dry	1			
o-Toluidine	0.0362 U	0.107	0.0362	mg/kg dry	1			
Pyridine	0.0703 U	0.213	0.0703	mg/kg dry	1			
Surrogate: 2,4,6-Tribromophenol	1.72			mg/kg dry			97 % 45-107	
Surrogate: 2-Fluorobiphenyl	0.580			mg/kg dry			65 % 50-100	
Surrogate: 2-Fluorophenol	1.10			mg/kg dry			62 % 36-100	
Surrogate: Nitrobenzene-d5	0.798			mg/kg dry			90 % 25-130	
Surrogate: Phenol-d5	1.32			mg/kg dry			74 % 34-109	
Surrogate: Terphenyl-d14	0.713			mg/kg dry			80 % 55-105	
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 12:39 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.000735 U	0.00107	0.000735	mg/kg dry	1			
beta-BHC	0.000692 U	0.00107	0.000692	mg/kg dry	1			
gamma-BHC	0.000937 U	0.00107	0.000937	mg/kg dry	1			
delta-BHC	0.000703 U	0.00107	0.000703	mg/kg dry	1			
Heptachlor	0.000810 U	0.00107	0.000810	mg/kg dry	1			
Aldrin	0.000586 U	0.00107	0.000586	mg/kg dry	1			
Heptachlor Epoxide	0.000618 U	0.00107	0.000618	mg/kg dry	1			
gamma-Chlordane	0.000543 U	0.00107	0.000543	mg/kg dry	1			
Endosulfan I	0.000543 U	0.00107	0.000543	mg/kg dry	1			
alpha-Chlordane	0.000522 U	0.00107	0.000522	mg/kg dry	1			
Dieldrin	0.000565 U	0.00107	0.000565	mg/kg dry	1			
4,4-DDE	0.000692 U	0.00107	0.000692	mg/kg dry	1			
Endrin	0.000586 U	0.00107	0.000586	mg/kg dry	1			
Endosulfan II	0.000543 U	0.00107	0.000543	mg/kg dry	1			
4,4-DDD	0.000703 U	0.00107	0.000703	mg/kg dry	1			
Endrin Aldehyde	0.000650 U	0.00107	0.000650	mg/kg dry	1			
Endosulfan Sulfate	0.000618 U	0.00107	0.000618	mg/kg dry	1			



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Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#4 @ 9' bls
1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 12:39 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
4,4-DDT	0.000618 U	0.00107	0.000618	mg/kg dry	1			
Endrin Ketone	0.000724 U	0.00107	0.000724	mg/kg dry	1			
Methoxychlor	0.000884 U	0.00107	0.000884	mg/kg dry	1			
Chlordane	0.00575 U	0.0533	0.00575	mg/kg dry	1			
Toxaphene	0.0192 U	0.0533	0.0192	mg/kg dry	1			
Surrogate: TCMX	0.00797			mg/kg dry			90 % 47-122	
Surrogate: Decachlorobiphenyl	0.0102			mg/kg dry			115 % 23-150	
Prepared: 17-Jan-14 09:20								
Analyzed: 17-Jan-14 22:53 Batch: B401097								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.00170 U	0.0533	0.00170	mg/kg dry	1			
PCB 1221	0.00671 U	0.0533	0.00671	mg/kg dry	1			
PCB 1232	0.00245 U	0.0533	0.00245	mg/kg dry	1			
PCB 1242	0.00170 U	0.0533	0.00170	mg/kg dry	1			
PCB 1248	0.00342 U	0.0533	0.00342	mg/kg dry	1			
PCB 1254	0.00298 U	0.0533	0.00298	mg/kg dry	1			
PCB 1260	0.00181 U	0.0533	0.00181	mg/kg dry	1			
Surrogate: Decachlorobiphenyl	0.0393			mg/kg dry			111 % 28-148	
Prepared: 16-Jan-14 08:43								
Analyzed: 16-Jan-14 17:06 Batch: B401086								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	15.8	4.26	2.81	mg/kg dry	1			
Surrogate: o-Terphenyl	2.72			mg/kg dry			77 % 62-109	
Surrogate: n-Nonatriacontane	18.0			mg/kg dry			84 % 60-118	
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:34 Batch: B401099								
EPA Method 6010C - Metals by ICP								



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SB#4 @ 9' bls

1312116-01 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 17-Jan-14 14:13			
EPA Method 6010C - Metals by ICP					Analyzed: 20-Jan-14 11:34			
					Batch: B401099			
Arsenic	0.234 U	1.07	0.234	mg/kg dry	1			
Cadmium	0.103 U	0.533	0.103	mg/kg dry	1			
Chromium	1.07	1.07	0.352	mg/kg dry	1			
Lead	0.256 U	1.07	0.256	mg/kg dry	1			
					Prepared: 15-Jan-14 14:29			
SM 2540G - % Dry Solids					Analyzed: 16-Jan-14 14:45			
					Batch: B401084			
% Dry Solids	93.9	0.100	0.100	% by Weight	1			



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Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 17-Jan-14 20:15			
EPA Method 8260C - VOC/FULL					Analyzed: 17-Jan-14 20:15		Batch: B401112	
Dichlorodifluoromethane	0.00182 U	0.00221	0.00182	mg/kg dry	0.926			
Chloromethane	0.00162 U	0.00221	0.00162	mg/kg dry	0.926			
Vinyl Chloride	0.00144 U	0.00221	0.00144	mg/kg dry	0.926			
Bromomethane	0.00238 U	0.00553	0.00238	mg/kg dry	0.926			
Chloroethane	0.000956 U	0.00221	0.000956	mg/kg dry	0.926			
Trichlorofluoromethane	0.00139 U	0.00221	0.00139	mg/kg dry	0.926			
1,1-Dichloroethene	0.00142 U	0.00221	0.00142	mg/kg dry	0.926			
Acetone	0.00405 U	0.0553	0.00405	mg/kg dry	0.926			
Iodomethane (Methyl Iodide)	0.0125 U	0.0553	0.0125	mg/kg dry	0.926			
Carbon Disulfide	0.000736 U	0.0111	0.000736	mg/kg dry	0.926			
Methylene Chloride	0.0163 U	0.0221	0.0163	mg/kg dry	0.926			
trans-1,2-Dichloroethene	0.00140 U	0.00221	0.00140	mg/kg dry	0.926			
Methyl tert-Butyl Ether (MTBE)	0.00140 U	0.00221	0.00140	mg/kg dry	0.926			
1,1-Dichloroethane	0.00117 U	0.00221	0.00117	mg/kg dry	0.926			
Vinyl Acetate	0.0107 U	0.0111	0.0107	mg/kg dry	0.926			
2,2-Dichloropropane	0.00170 U	0.00221	0.00170	mg/kg dry	0.926			
cis-1,2-Dichloroethene	0.00141 U	0.00221	0.00141	mg/kg dry	0.926			
2-Butanone (MEK)	0.00530 U	0.0111	0.00530	mg/kg dry	0.926			
Bromochloromethane	0.000851 U	0.00221	0.000851	mg/kg dry	0.926			
Chloroform	0.000720 U	0.00221	0.000720	mg/kg dry	0.926			
1,1,1-Trichloroethane	0.00126 U	0.00221	0.00126	mg/kg dry	0.926			
Carbon Tetrachloride	0.00161 U	0.00221	0.00161	mg/kg dry	0.926			
1,1-Dichloropropene	0.00168 U	0.00221	0.00168	mg/kg dry	0.926			
Benzene	0.00137 U	0.00221	0.00137	mg/kg dry	0.926			
1,2-Dichloroethane	0.000955 U	0.00221	0.000955	mg/kg dry	0.926			
Trichloroethene (TCE)	0.00142 U	0.00221	0.00142	mg/kg dry	0.926			
1,2-Dichloropropane	0.00120 U	0.00221	0.00120	mg/kg dry	0.926			
Dibromomethane	0.000758 U	0.00221	0.000758	mg/kg dry	0.926			
Bromodichloromethane	0.000605 U	0.00221	0.000605	mg/kg dry	0.926			
2-Chloroethyl Vinyl Ether	0.00394 U	0.0111	0.00394	mg/kg dry	0.926			
cis-1,3-Dichloropropene	0.00112 U	0.00221	0.00112	mg/kg dry	0.926			



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 17-Jan-14 20:15			
EPA Method 8260C - VOC/FULL					Analyzed: 17-Jan-14 20:15		Batch: B401112	
4-Methyl-2-Pentanone (MIBK)	0.00538 U	0.0221	0.00538	mg/kg dry	0.926			
2-Hexanone	0.00612 U	0.0221	0.00612	mg/kg dry	0.926			
Toluene	0.00133 U	0.00221	0.00133	mg/kg dry	0.926			
trans-1,3-Dichloropropene	0.00111 U	0.00221	0.00111	mg/kg dry	0.926			
1,1,2-Trichloroethane	0.000890 U	0.00221	0.000890	mg/kg dry	0.926			
Tetrachloroethene (PCE)	0.000921 U	0.0111	0.000921	mg/kg dry	0.926			
1,3-Dichloropropane	0.000888 U	0.00221	0.000888	mg/kg dry	0.926			
Dibromochloromethane	0.000570 U	0.0111	0.000570	mg/kg dry	0.926			
1,2-Dibromoethane (EDB)	0.000953 U	0.00221	0.000953	mg/kg dry	0.926			
Chlorobenzene	0.00106 U	0.00221	0.00106	mg/kg dry	0.926			
1,1,1,2-Tetrachloroethane	0.000898 U	0.00221	0.000898	mg/kg dry	0.926			
Ethylbenzene	0.00171 U	0.00221	0.00171	mg/kg dry	0.926			
m- & p-Xylenes	0.00471 U	0.00553	0.00471	mg/kg dry	0.926			
o-Xylene	0.00207 U	0.00221	0.00207	mg/kg dry	0.926			
Styrene	0.00172 U	0.00221	0.00172	mg/kg dry	0.926			
Bromoform	0.00112 U	0.00221	0.00112	mg/kg dry	0.926			
Isopropylbenzene (Cumene)	0.00211 U	0.00221	0.00211	mg/kg dry	0.926			
Bromobenzene	0.00117 U	0.00221	0.00117	mg/kg dry	0.926			
1,1,2,2-Tetrachloroethane	0.00111 U	0.00221	0.00111	mg/kg dry	0.926			
1,2,3-Trichloropropane	0.00181 U	0.00221	0.00181	mg/kg dry	0.926			
n-Propylbenzene	0.00202 U	0.00553	0.00202	mg/kg dry	0.926			
2-Chlorotoluene	0.00175 U	0.00221	0.00175	mg/kg dry	0.926			
4-Chlorotoluene	0.00183 U	0.00221	0.00183	mg/kg dry	0.926			
1,3,5-Trimethylbenzene	0.00195 U	0.00221	0.00195	mg/kg dry	0.926			
tert-Butyl Benzene	0.00205 U	0.00221	0.00205	mg/kg dry	0.926			
1,2,4-Trimethylbenzene	0.00292 U	0.00553	0.00292	mg/kg dry	0.926			
sec-Butyl Benzene	0.00200 U	0.00221	0.00200	mg/kg dry	0.926			
1,3-Dichlorobenzene	0.00148 U	0.00221	0.00148	mg/kg dry	0.926			
p-Isopropyltoluene	0.00180 U	0.00221	0.00180	mg/kg dry	0.926			
1,4-Dichlorobenzene	0.00138 U	0.00221	0.00138	mg/kg dry	0.926			
1,2-Dichlorobenzene	0.00155 U	0.00221	0.00155	mg/kg dry	0.926			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 17-Jan-14 20:15								
Analyzed: 17-Jan-14 20:15								
Batch: B401112								
EPA Method 8260C - VOC/FULL								
n-Butyl Benzene	0.00233 U	0.00553	0.00233	mg/kg dry	0.926			
1,2-Dibromo-3-Chloropropane	0.00121 U	0.00553	0.00121	mg/kg dry	0.926			
1,2,4-Trichlorobenzene	0.00218 U	0.00221	0.00218	mg/kg dry	0.926			
Naphthalene	0.00290 U	0.00443	0.00290	mg/kg dry	0.926			
Hexachlorobutadiene	0.00201 U	0.00332	0.00201	mg/kg dry	0.926			
1,2,3-Trichlorobenzene	0.000200 U	0.00221	0.000200	mg/kg dry	0.926			
Surrogate: Dibromofluoromethane	50.8			ug/kg		102 %	80-120	
Surrogate: 1,2-Dichloroethane-d4	50.5			ug/kg		101 %	80-120	
Surrogate: Toluene-d8	49.5			ug/kg		99 %	80-120	
Surrogate: 4-Bromofluorobenzene	48.9			ug/kg		98 %	68-120	
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:57								
Batch: B401079								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	0.0275 U	0.0597	0.0275	mg/kg dry	1			
1,2,4-Trichlorobenzene	0.0259 U	0.0597	0.0259	mg/kg dry	1			
1,2-Dichlorobenzene	0.0383 U	0.0597	0.0383	mg/kg dry	1			
1,3-Dichlorobenzene	0.0717 U	0.119	0.0717	mg/kg dry	1			
1,4-Dichlorobenzene	0.0623 U	0.119	0.0623	mg/kg dry	1			
1-Methylnaphthalene	0.0269 U	0.0597	0.0269	mg/kg dry	1			
2,4,5-Trichlorophenol	0.0664 U	0.119	0.0664	mg/kg dry	1			
1-Chloronaphthalene	0.0287 U	0.0597	0.0287	mg/kg dry	1			
2,4,6-Trichlorophenol	0.0880 U	0.119	0.0880	mg/kg dry	1			
2,4-Dichlorophenol	0.0669 U	0.119	0.0669	mg/kg dry	1			
1-Naphthylamine	0.0741 U	0.179	0.0741	mg/kg dry	1			
2,4-Dimethylphenol	0.0638 U	0.239	0.0638	mg/kg dry	1			
2,3,4,6-Tetrachlorophenol	0.0538 U	0.119	0.0538	mg/kg dry	1			
2,4-Dinitrophenol	0.125 U	0.239	0.125	mg/kg dry	1			
2,4-Dinitrotoluene	0.0146 U	0.0597	0.0146	mg/kg dry	1			
2,6-Dichlorophenol	0.0474 U	0.0597	0.0474	mg/kg dry	1			
2-Chloronaphthalene	0.0276 U	0.0597	0.0276	mg/kg dry	1			
2-Chlorophenol	0.0849 U	0.119	0.0849	mg/kg dry	1			



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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
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Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:57								
Batch: B401079								
EPA Method 8270D - BNAs								
2,6-Dinitrotoluene	0.0155 U	0.0597	0.0155	mg/kg dry	1			
2-Methylnaphthalene	0.0374 U	0.0597	0.0374	mg/kg dry	1			
2-Methylphenol	0.0477 U	0.0597	0.0477	mg/kg dry	1			
2-Nitroaniline	0.0442 U	0.0597	0.0442	mg/kg dry	1			
2-Nitrophenol	0.0436 U	0.239	0.0436	mg/kg dry	1			
3,3-Dichlorobenzidine	0.198 U	0.239	0.198	mg/kg dry	1			
3/4-Methylphenol	0.0601 U	0.119	0.0601	mg/kg dry	1			
3-Nitroaniline	0.0399 U	0.119	0.0399	mg/kg dry	1			
4-Bromophenyl-Phenylether	0.0417 U	0.0597	0.0417	mg/kg dry	1			
4-Chloro-3-Methylphenol	0.0630 U	0.119	0.0630	mg/kg dry	1			
2-Naphthylamine	0.0370 U	0.0597	0.0370	mg/kg dry	1			
4-Chloroaniline	0.0406 U	0.119	0.0406	mg/kg dry	1			
4-Chlorophenyl-Phenylether	0.0261 U	0.0597	0.0261	mg/kg dry	1			
4-Nitroaniline	0.0281 U	0.119	0.0281	mg/kg dry	1			
4-Nitrophenol	0.139 U	0.239	0.139	mg/kg dry	1			
Acenaphthene	0.0384 U	0.0597	0.0384	mg/kg dry	1			
4,6-Dinitro-2-Methylphenol	0.104 U	0.239	0.104	mg/kg dry	1			
Acenaphthylene	0.0128 U	0.0597	0.0128	mg/kg dry	1			
Anthracene	0.0190 U	0.0597	0.0190	mg/kg dry	1			
Benzo(a)anthracene	0.0187 U	0.0597	0.0187	mg/kg dry	1			
Benzo(a)pyrene	0.0177 U	0.0597	0.0177	mg/kg dry	1			
Benzo(b)fluoranthene	0.0223 U	0.0597	0.0223	mg/kg dry	1			
Benzo(g,h,i)perylene	0.0267 U	0.0597	0.0267	mg/kg dry	1			
4-Dimethylaminoazobenzene	0.0239 U	0.0597	0.0239	mg/kg dry	1			
Benzo(k)fluoranthene	0.0311 U	0.0597	0.0311	mg/kg dry	1			
Benzyl alcohol	0.0464 U	0.0597	0.0464	mg/kg dry	1			
bis(2-Chloroethoxy)methane	0.0288 U	0.0597	0.0288	mg/kg dry	1			
Bis(2-Chloroethyl)ether	0.0445 U	0.0597	0.0445	mg/kg dry	1			
Bis(2-chloroisopropyl)ether	0.0621 U	0.119	0.0621	mg/kg dry	1			
Bis(2-Ethylhexyl)phthalate	0.0178 U	0.0597	0.0178	mg/kg dry	1			
Butylbenzylphthalate	0.0296 U	0.0597	0.0296	mg/kg dry	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:57								
Batch: B401079								
EPA Method 8270D - BNAs								
Aniline	0.0633 U	0.119	0.0633	mg/kg dry	1			
Carbazole	0.0307 U	0.0597	0.0307	mg/kg dry	1			
Chrysene	0.0236 U	0.0597	0.0236	mg/kg dry	1			
Azobenzene	0.0239 U	0.0597	0.0239	mg/kg dry	1			
Benzidine	0.206 U	0.239	0.206	mg/kg dry	1			
Dibenzo(a,h)anthracene	0.0189 U	0.0597	0.0189	mg/kg dry	1			
Dibenzofuran	0.0305 U	0.0597	0.0305	mg/kg dry	1			
Diethylphthalate	0.0195 U	0.0597	0.0195	mg/kg dry	1			
Dimethylphthalate	0.0400 U	0.0597	0.0400	mg/kg dry	1			
Di-n-Butyl Phthalate	0.0245 U	0.0597	0.0245	mg/kg dry	1			
Di-n-Octyl Phthalate	0.0233 U	0.0597	0.0233	mg/kg dry	1			
Fluoranthene	0.0178 U	0.0597	0.0178	mg/kg dry	1			
Fluorene	0.0256 U	0.0597	0.0256	mg/kg dry	1			
Hexachlorobenzene	0.0463 U	0.0597	0.0463	mg/kg dry	1			
Hexachlorobutadiene	0.0463 U	0.0597	0.0463	mg/kg dry	1			
Hexachlorocyclopentadiene	0.0208 U	0.0597	0.0208	mg/kg dry	1			
Hexachloroethane	0.0299 U	0.0597	0.0299	mg/kg dry	1			
Indeno(1,2,3-cd)pyrene	0.0285 U	0.0597	0.0285	mg/kg dry	1			
Isophorone	0.0268 U	0.0597	0.0268	mg/kg dry	1			
Naphthalene	0.0253 U	0.0597	0.0253	mg/kg dry	1			
Nitrobenzene	0.0470 U	0.0597	0.0470	mg/kg dry	1			
N-Nitrosodi-n-butylamine	0.0266 U	0.0597	0.0266	mg/kg dry	1			
N-Nitroso-di-n-propylamine	0.0513 U	0.0597	0.0513	mg/kg dry	1			
N-Nitrosodiphenylamine	0.0378 U	0.0597	0.0378	mg/kg dry	1			
Pentachlorophenol	0.109 U	0.239	0.109	mg/kg dry	1			
Phenanthrene	0.0142 U	0.0597	0.0142	mg/kg dry	1			
Phenol	0.0647 U	0.119	0.0647	mg/kg dry	1			
Pyrene	0.0240 U	0.0597	0.0240	mg/kg dry	1			
N-Nitrosodiethylamine	0.0550 U	0.0597	0.0550	mg/kg dry	1			
N-Nitrosodimethylamine	0.0574 U	0.0597	0.0574	mg/kg dry	1			
N-Nitrosomethylethylamine	0.0418 U	0.0597	0.0418	mg/kg dry	1			



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SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 15-Jan-14 13:00								
Analyzed: 15-Jan-14 21:57 Batch: B401079								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.0442 U	0.0597	0.0442	mg/kg dry	1			
N-Nitrosopiperidine	0.0418 U	0.0597	0.0418	mg/kg dry	1			
N-Nitrosopyrrolidine	0.0323 U	0.0597	0.0323	mg/kg dry	1			
o-Toluidine	0.0406 U	0.119	0.0406	mg/kg dry	1			
Pyridine	0.0789 U	0.239	0.0789	mg/kg dry	1			
Surrogate: 2,4,6-Tribromophenol	2.27			mg/kg dry		114 %	45-107	J2
Surrogate: 2-Fluorobiphenyl	0.757			mg/kg dry		76 %	50-100	
Surrogate: 2-Fluorophenol	1.44			mg/kg dry		72 %	36-100	
Surrogate: Nitrobenzene-d5	1.02			mg/kg dry		102 %	25-130	
Surrogate: Phenol-d5	1.67			mg/kg dry		84 %	34-109	
Surrogate: Terphenyl-d14	0.921			mg/kg dry		92 %	55-105	
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 13:12 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.000824 U	0.00119	0.000824	mg/kg dry	1			
beta-BHC	0.000777 U	0.00119	0.000777	mg/kg dry	1			
gamma-BHC	0.00105 U	0.00119	0.00105	mg/kg dry	1			
delta-BHC	0.000789 U	0.00119	0.000789	mg/kg dry	1			
Heptachlor	0.000908 U	0.00119	0.000908	mg/kg dry	1			
Aldrin	0.000657 U	0.00119	0.000657	mg/kg dry	1			
Heptachlor Epoxide	0.000693 U	0.00119	0.000693	mg/kg dry	1			
gamma-Chlordane	0.000609 U	0.00119	0.000609	mg/kg dry	1			
Endosulfan I	0.000609 U	0.00119	0.000609	mg/kg dry	1			
alpha-Chlordane	0.000585 U	0.00119	0.000585	mg/kg dry	1			
Dieldrin	0.000633 U	0.00119	0.000633	mg/kg dry	1			
4,4-DDE	0.000777 U	0.00119	0.000777	mg/kg dry	1			
Endrin	0.000657 U	0.00119	0.000657	mg/kg dry	1			
Endosulfan II	0.000609 U	0.00119	0.000609	mg/kg dry	1			
4,4-DDD	0.000789 U	0.00119	0.000789	mg/kg dry	1			
Endrin Aldehyde	0.000729 U	0.00119	0.000729	mg/kg dry	1			
Endosulfan Sulfate	0.000693 U	0.00119	0.000693	mg/kg dry	1			



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SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 07:30								
Analyzed: 22-Jan-14 13:12 Batch: B401117								
EPA Method 8081B - Organochlorine Pesticides								
4,4-DDT	0.000693 U	0.00119	0.000693	mg/kg dry	1			
Endrin Ketone	0.000812 U	0.00119	0.000812	mg/kg dry	1			
Methoxychlor	0.000992 U	0.00119	0.000992	mg/kg dry	1			
Chlordane	0.00645 U	0.0597	0.00645	mg/kg dry	1			
Toxaphene	0.0215 U	0.0597	0.0215	mg/kg dry	1			
Surrogate: TCMX	0.00878			mg/kg dry		88 %	47-122	
Surrogate: Decachlorobiphenyl	0.0118			mg/kg dry		118 %	23-150	
Prepared: 17-Jan-14 09:20								
Analyzed: 17-Jan-14 23:25 Batch: B401097								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.00191 U	0.0597	0.00191	mg/kg dry	1			
PCB 1221	0.00753 U	0.0597	0.00753	mg/kg dry	1			
PCB 1232	0.00275 U	0.0597	0.00275	mg/kg dry	1			
PCB 1242	0.00191 U	0.0597	0.00191	mg/kg dry	1			
PCB 1248	0.00384 U	0.0597	0.00384	mg/kg dry	1			
PCB 1254	0.00335 U	0.0597	0.00335	mg/kg dry	1			
PCB 1260	0.00203 U	0.0597	0.00203	mg/kg dry	1			
Surrogate: Decachlorobiphenyl	0.0513			mg/kg dry		129 %	28-148	
Prepared: 16-Jan-14 08:43								
Analyzed: 16-Jan-14 17:42 Batch: B401086								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	13.2	4.78	3.15	mg/kg dry	1			
Surrogate: o-Terphenyl	2.88			mg/kg dry		72 %	62-109	
Surrogate: n-Nonatriacontane	19.5			mg/kg dry		82 %	60-118	
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:38 Batch: B401099								
EPA Method 6010C - Metals by ICP								



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SB#8 @ 4' bls
1312116-02 (Soil)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 17-Jan-14 14:13								
Analyzed: 20-Jan-14 11:38								
Batch: B401099								
EPA Method 6010C - Metals by ICP								
Arsenic	0.263 U	1.19	0.263	mg/kg dry	1			
Cadmium	0.116 U	0.597	0.116	mg/kg dry	1			
Chromium	0.394 U	1.19	0.394	mg/kg dry	1			
Lead	0.287 U	1.19	0.287	mg/kg dry	1			
Prepared: 15-Jan-14 14:29								
Analyzed: 16-Jan-14 14:47								
Batch: B401084								
SM 2540G - % Dry Solids								
% Dry Solids	83.7	0.100	0.100	% by Weight	1			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 18-Jan-14 10:15			
EPA Method 8260C - VOC/FULL					Analyzed: 18-Jan-14 10:15		Batch: B401113	
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L	1			
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L	1			
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L	1			
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L	1			
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L	1			
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L	1			
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L	1			
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L	1			
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L	1			
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L	1			
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L	1			
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L	1			
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L	1			
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L	1			
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L	1			
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L	1			
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L	1			
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L	1			
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L	1			
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L	1			
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L	1			
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L	1			
2-Hexanone	4.00 U	20.0	4.00	ug/L	1			
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L	1			
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L	1			
Acetone	5.00 U	10.0	5.00	ug/L	1			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Bromobenzene	0.410 U	2.00	0.410	ug/L	1			
Bromochloromethane	0.500 U	5.00	0.500	ug/L	1			



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 18-Jan-14 10:15			
EPA Method 8260C - VOC/FULL					Analyzed: 18-Jan-14 10:15			
					Batch: B401113			
Bromodichloromethane	0.540 U	0.600	0.540	ug/L	1			
Bromoform	0.650 U	2.00	0.650	ug/L	1			
Bromomethane	2.00 U	5.00	2.00	ug/L	1			
Carbon Disulfide	0.800 U	2.00	0.800	ug/L	1			
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L	1			
Chlorobenzene	0.560 U	2.00	0.560	ug/L	1			
Chloroethane	1.17 U	2.00	1.17	ug/L	1			
Chloroform	1.00 U	2.00	1.00	ug/L	1			
Chloromethane	0.560 U	2.00	0.560	ug/L	1			
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L	1			
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L	1			
Dibromochloromethane	0.710 U	2.00	0.710	ug/L	1			
Dibromomethane	0.250 U	2.00	0.250	ug/L	1			
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L	1			
Ethylbenzene	0.500 U	2.00	0.500	ug/L	1			
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L	1			
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L	1			
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L	1			
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L	1			
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	1			
Methylene Chloride	2.50 U	5.00	2.50	ug/L	1			
Naphthalene	1.36 U	5.00	1.36	ug/L	1			
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L	1			
n-Propylbenzene	0.630 U	2.00	0.630	ug/L	1			
o-Xylene	0.660 U	2.00	0.660	ug/L	1			
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L	1			
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L	1			
Styrene	0.640 U	2.00	0.640	ug/L	1			
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L	1			
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L	1			
Toluene	0.580 U	2.00	0.580	ug/L	1			



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TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 18-Jan-14 10:15								
Analyzed: 18-Jan-14 10:15								
Batch: B401113								
EPA Method 8260C - VOC/FULL								
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L	1			
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L	1			
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L	1			
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L	1			
Vinyl Acetate	1.63 U	2.00	1.63	ug/L	1			
Vinyl Chloride	0.970 U	1.00	0.970	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	50.3			ug/L			101 % 80-120	
Surrogate: 4-Bromofluorobenzene	48.6			ug/L			97 % 80-120	
Surrogate: Dibromofluoromethane	51.4			ug/L			103 % 80-120	
Surrogate: Toluene-d8	49.7			ug/L			99 % 80-120	
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:16								
Batch: B401120								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L	1			
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L	1			
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L	1			
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L	1			
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L	1			
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L	1			
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L	1			
1-Naphthylamine	5.03 U	10.0	5.03	ug/L	1			
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L	1			
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L	1			
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L	1			
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L	1			
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L	1			
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L	1			
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L	1			
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L	1			
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L	1			
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L	1			



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TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:16								
Batch: B401120								
EPA Method 8270D - BNAs								
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L	1			
2-Chlorophenol	1.47 U	5.00	1.47	ug/L	1			
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L	1			
2-Methylphenol	0.534 U	5.00	0.534	ug/L	1			
2-Naphthylamine	2.37 U	10.0	2.37	ug/L	1			
2-Nitroaniline	0.892 U	20.0	0.892	ug/L	1			
2-Nitrophenol	1.73 U	20.0	1.73	ug/L	1			
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L	1			
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L	1			
3-Nitroaniline	1.26 U	5.00	1.26	ug/L	1			
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L	1			
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L	1			
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L	1			
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L	1			
4-Chloroaniline	2.88 U	5.00	2.88	ug/L	1			
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L	1			
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L	1			
4-Nitroaniline	1.20 U	5.00	1.20	ug/L	1			
4-Nitrophenol	0.717 U	20.0	0.717	ug/L	1			
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L	1			
Acenaphthene	0.0640 U	1.00	0.0640	ug/L	1			
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L	1			
Aniline	3.70 U	4.00	3.70	ug/L	1			
Anthracene	0.0670 U	0.300	0.0670	ug/L	1			
Azobenzene	0.785 U	1.00	0.785	ug/L	1			
Benidine	5.70 U	50.0	5.70	ug/L	1			
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L	1			
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L	1			
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L	1			
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L	1			
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L	1			



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TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:16								
Batch: B401120								
EPA Method 8270D - BNAs								
Benzyl alcohol	0.386 U	5.00	0.386	ug/L	1			
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L	1			
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L	1			
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L	1			
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L	1			
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L	1			
Carbazole	0.521 U	5.00	0.521	ug/L	1			
Chrysene	0.135 U	0.200	0.135	ug/L	1			
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L	1			
Dibenzofuran	0.716 U	5.00	0.716	ug/L	1			
Diethylphthalate	0.795 U	5.00	0.795	ug/L	1			
Dimethylphthalate	0.617 U	5.00	0.617	ug/L	1			
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Fluoranthene	0.0910 U	0.300	0.0910	ug/L	1			
Fluorene	0.0660 U	1.00	0.0660	ug/L	1			
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L	1			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L	1			
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L	1			
Hexachloroethane	1.53 U	5.00	1.53	ug/L	1			
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L	1			
Isophorone	1.00 U	5.00	1.00	ug/L	1			
Naphthalene	0.0640 U	1.00	0.0640	ug/L	1			
Nitrobenzene	0.746 U	3.50	0.746	ug/L	1			
o-Toluidine	3.32 U	5.00	3.32	ug/L	1			
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L	1			
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L	1			
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L	1			
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L	1			
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L	1			
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L	1			



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TW-1
1312116-03 (Ground Water)

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Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 15:16								
Batch: B401120								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L	1			
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L	1			
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L	1			
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L	1			
Pentachlorophenol	1.72 U	20.0	1.72	ug/L	1			
Phenanthrene	0.0780 U	0.200	0.0780	ug/L	1			
Phenol	0.796 U	6.50	0.796	ug/L	1			
Pyrene	0.0930 U	0.300	0.0930	ug/L	1			
Pyridine	0.689 U	5.00	0.689	ug/L	1			
Surrogate: 2,4,6-Tribromophenol	27.0			ug/L			54 % 15-122	
Surrogate: 2-Fluorobiphenyl	14.3			ug/L			57 % 49-100	
Surrogate: 2-Fluorophenol	11.8			ug/L			24 % 1-100	
Surrogate: Nitrobenzene-d5	12.6			ug/L			50 % 47-106	
Surrogate: Phenol-d5	9.51			ug/L			19 % 2-100	
Surrogate: Terphenyl-d14	17.9			ug/L			72 % 56-108	
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 02:02								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
beta-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
gamma-BHC	0.00400 U	0.100	0.00400	ug/L	1			
delta-BHC	0.00300 U	0.0500	0.00300	ug/L	1			
Heptachlor	0.00300 U	0.0500	0.00300	ug/L	1			
Aldrin	0.00200 U	0.0500	0.00200	ug/L	1			
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L	1			
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Endosulfan I	0.00200 U	0.100	0.00200	ug/L	1			
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Dieldrin	0.00200 U	0.100	0.00200	ug/L	1			
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L	1			
Endrin	0.00200 U	0.200	0.00200	ug/L	1			



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
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TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 02:02								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
Endosulfan II	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L	1			
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L	1			
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDT	0.00400 U	0.200	0.00400	ug/L	1			
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L	1			
Methoxychlor	0.00400 U	0.200	0.00400	ug/L	1			
Chlordane	0.150 U	1.00	0.150	ug/L	1			
Toxaphene	0.520 U	1.00	0.520	ug/L	1			
Surrogate: TCMX	0.0200			ug/L			80 % 51-116	
Surrogate: Decachlorobiphenyl	0.0290			ug/L			116 % 67-116	
Prepared: 21-Jan-14 10:41								
Analyzed: 22-Jan-14 23:08								
Batch: B401119								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.163 U	0.500	0.163	ug/L	1			
PCB 1221	0.108 U	0.500	0.108	ug/L	1			
PCB 1232	0.141 U	0.500	0.141	ug/L	1			
PCB 1242	0.191 U	0.500	0.191	ug/L	1			
PCB 1248	0.133 U	0.500	0.133	ug/L	1			
PCB 1254	0.0950 U	0.500	0.0950	ug/L	1			
PCB 1260	0.144 U	0.500	0.144	ug/L	1			
Surrogate: Decachlorobiphenyl	0.633			ug/L			63 % 26-105	
Prepared: 17-Jan-14 14:31								
Analyzed: 20-Jan-14 09:18								
Batch: B401095								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	286	400	171	ug/L	1			I
Surrogate: o-Terphenyl	83.0			ug/L			83 % 82-142	
Surrogate: n-Nonatriacontane	526			ug/L			88 % 42-193	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

TW-1
1312116-03 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 14:06								
Analyzed: 22-Jan-14 14:04 Batch: B401107								
EPA Method 6010C - Metals by ICP								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Prepared: 20-Jan-14 14:32								
Analyzed: 21-Jan-14 13:04 Batch: B401109								
EPA Method 6010C - Metals by ICP (Lab-Filtered)								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	RPD	RPD	RPD	Qualifiers
							Limits	Limit	Limit		
Batch: B401092 - Prep Method: 5035 (low)											
Blank (B401092-BLK1)					Prepared: 15-Jan-14 16:34		Analyzed: 15-Jan-14 16:34				
Dichlorodifluoromethane	0.00164 U	0.00200	0.00164	mg/kg wet							
Chloromethane	0.00147 U	0.00200	0.00147	mg/kg wet							
Vinyl Chloride	0.00130 U	0.00200	0.00130	mg/kg wet							
Bromomethane	0.00215 U	0.00500	0.00215	mg/kg wet							
Chloroethane	0.000864 U	0.00200	0.000864	mg/kg wet							
Trichlorofluoromethane	0.00125 U	0.00200	0.00125	mg/kg wet							
1,1-Dichloroethene	0.00129 U	0.00200	0.00129	mg/kg wet							
Acetone	0.00366 U	0.0500	0.00366	mg/kg wet							
Iodomethane (Methyl Iodide)	0.0113 U	0.0500	0.0113	mg/kg wet							
Carbon Disulfide	0.000666 U	0.0100	0.000666	mg/kg wet							
Methylene Chloride	0.0147 U	0.0200	0.0147	mg/kg wet							
trans-1,2-Dichloroethene	0.00126 U	0.00200	0.00126	mg/kg wet							
Methyl tert-Butyl Ether (MTBE)	0.00126 U	0.00200	0.00126	mg/kg wet							
1,1-Dichloroethane	0.00106 U	0.00200	0.00106	mg/kg wet							
Vinyl Acetate	0.00964 U	0.0100	0.00964	mg/kg wet							
2,2-Dichloropropane	0.00154 U	0.00200	0.00154	mg/kg wet							
cis-1,2-Dichloroethene	0.00127 U	0.00200	0.00127	mg/kg wet							
2-Butanone (MEK)	0.00479 U	0.0100	0.00479	mg/kg wet							
Bromochloromethane	0.000769 U	0.00200	0.000769	mg/kg wet							
Chloroform	0.000651 U	0.00200	0.000651	mg/kg wet							
1,1,1-Trichloroethane	0.00114 U	0.00200	0.00114	mg/kg wet							
Carbon Tetrachloride	0.00145 U	0.00200	0.00145	mg/kg wet							
1,1-Dichloropropene	0.00152 U	0.00200	0.00152	mg/kg wet							
Benzene	0.00124 U	0.00200	0.00124	mg/kg wet							
1,2-Dichloroethane	0.000863 U	0.00200	0.000863	mg/kg wet							
Trichloroethene (TCE)	0.00128 U	0.00200	0.00128	mg/kg wet							
1,2-Dichloropropane	0.00109 U	0.00200	0.00109	mg/kg wet							
Dibromomethane	0.000685 U	0.00200	0.000685	mg/kg wet							
Bromodichloromethane	0.000547 U	0.00200	0.000547	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.00356 U	0.0100	0.00356	mg/kg wet							
cis-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet							
4-Methyl-2-Pentanone (MIBK)	0.00486 U	0.0200	0.00486	mg/kg wet							
2-Hexanone	0.00553 U	0.0200	0.00553	mg/kg wet							



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401092 - Prep Method: 5035 (low)

Blank (B401092-BLK1) Prepared: 15-Jan-14 16:34 Analyzed: 15-Jan-14 16:34

Toluene	0.00121 U	0.00200	0.00121	mg/kg wet
trans-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
1,1,2-Trichloroethane	0.000804 U	0.00200	0.000804	mg/kg wet
Tetrachloroethene (PCE)	0.000833 U	0.0100	0.000833	mg/kg wet
1,3-Dichloropropane	0.000802 U	0.00200	0.000802	mg/kg wet
Dibromochloromethane	0.000515 U	0.0100	0.000515	mg/kg wet
1,2-Dibromoethane (EDB)	0.000862 U	0.00200	0.000862	mg/kg wet
Chlorobenzene	0.000960 U	0.00200	0.000960	mg/kg wet
1,1,1,2-Tetrachloroethane	0.000812 U	0.00200	0.000812	mg/kg wet
Ethylbenzene	0.00154 U	0.00200	0.00154	mg/kg wet
m- & p-Xylenes	0.00425 U	0.00500	0.00425	mg/kg wet
o-Xylene	0.00187 U	0.00200	0.00187	mg/kg wet
Styrene	0.00156 U	0.00200	0.00156	mg/kg wet
Bromoform	0.00101 U	0.00200	0.00101	mg/kg wet
Isopropylbenzene (Cumene)	0.00191 U	0.00200	0.00191	mg/kg wet
Bromobenzene	0.00106 U	0.00200	0.00106	mg/kg wet
1,1,2,2-Tetrachloroethane	0.00100 U	0.00200	0.00100	mg/kg wet
1,2,3-Trichloropropane	0.00164 U	0.00200	0.00164	mg/kg wet
n-Propylbenzene	0.00182 U	0.00500	0.00182	mg/kg wet
2-Chlorotoluene	0.00158 U	0.00200	0.00158	mg/kg wet
4-Chlorotoluene	0.00166 U	0.00200	0.00166	mg/kg wet
1,3,5-Trimethylbenzene	0.00176 U	0.00200	0.00176	mg/kg wet
tert-Butyl Benzene	0.00185 U	0.00200	0.00185	mg/kg wet
1,2,4-Trimethylbenzene	0.00264 U	0.00500	0.00264	mg/kg wet
sec-Butyl Benzene	0.00181 U	0.00200	0.00181	mg/kg wet
1,3-Dichlorobenzene	0.00134 U	0.00200	0.00134	mg/kg wet
p-Isopropyltoluene	0.00163 U	0.00200	0.00163	mg/kg wet
1,4-Dichlorobenzene	0.00125 U	0.00200	0.00125	mg/kg wet
1,2-Dichlorobenzene	0.00140 U	0.00200	0.00140	mg/kg wet
n-Butyl Benzene	0.00211 U	0.00500	0.00211	mg/kg wet
1,2-Dibromo-3-Chloropropane	0.00109 U	0.00500	0.00109	mg/kg wet
1,2,4-Trichlorobenzene	0.00197 U	0.00200	0.00197	mg/kg wet
Naphthalene	0.00263 U	0.00400	0.00263	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

Blank (B401092-BLK1)				Prepared: 15-Jan-14 16:34			Analyzed: 15-Jan-14 16:34				
Hexachlorobutadiene	0.00182 U	0.00300	0.00182	mg/kg wet							
1,2,3-Trichlorobenzene	0.000181 U	0.00200	0.000181	mg/kg wet							
Surrogate: Dibromofluoromethane	50.5			ug/kg	50.0		101	80-120			
Surrogate: 1,2-Dichloroethane-d4	47.6			ug/kg	50.0		95	80-120			
Surrogate: Toluene-d8	49.9			ug/kg	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	49.2			ug/kg	50.0		98	68-120			
LCS (B401092-BS1)				Prepared: 15-Jan-14 17:02			Analyzed: 15-Jan-14 17:02				
Dichlorodifluoromethane	0.0271	0.00200	0.00164	mg/kg wet	0.0400		68	65-129			
Chloromethane	0.0337	0.00200	0.00147	mg/kg wet	0.0400		84	71-119			
Vinyl Chloride	0.0334	0.00200	0.00130	mg/kg wet	0.0400		84	74-121			
Bromomethane	0.0392	0.00500	0.00215	mg/kg wet	0.0400		98	39-142			
Chloroethane	0.0351	0.00200	0.000864	mg/kg wet	0.0400		88	69-121			
Trichlorofluoromethane	0.0356	0.00200	0.00125	mg/kg wet	0.0400		89	69-132			
1,1-Dichloroethene	0.0356	0.00200	0.00129	mg/kg wet	0.0400		89	69-128			
Acetone	0.0825	0.0500	0.00366	mg/kg wet	0.100		83	52-133			
Iodomethane (Methyl Iodide)	0.0300	0.0500	0.0113	mg/kg wet	0.0400		75	33-137			I
Carbon Disulfide	0.0329	0.0100	0.000666	mg/kg wet	0.0400		82	64-125			
Methylene Chloride	0.0345	0.0200	0.0147	mg/kg wet	0.0400		86	44-151			
trans-1,2-Dichloroethene	0.0393	0.00200	0.00126	mg/kg wet	0.0400		98	80-116			
Methyl tert-Butyl Ether (MTBE)	0.0368	0.00200	0.00126	mg/kg wet	0.0400		92	71-120			
1,1-Dichloroethane	0.0376	0.00200	0.00106	mg/kg wet	0.0400		94	80-114			
Vinyl Acetate	0.118	0.0100	0.00964	mg/kg wet	0.100		118	25-172			
2,2-Dichloropropane	0.0507	0.00200	0.00154	mg/kg wet	0.0400		127	49-139			
cis-1,2-Dichloroethene	0.0402	0.00200	0.00127	mg/kg wet	0.0400		101	80-117			
2-Butanone (MEK)	0.0920	0.0100	0.00479	mg/kg wet	0.100		92	61-129			
Bromochloromethane	0.0398	0.00200	0.000769	mg/kg wet	0.0400		99	79-119			
Chloroform	0.0380	0.00200	0.000651	mg/kg wet	0.0400		95	74-117			
1,1,1-Trichloroethane	0.0415	0.00200	0.00114	mg/kg wet	0.0400		104	77-121			
Carbon Tetrachloride	0.0477	0.00200	0.00145	mg/kg wet	0.0400		119	72-132			
1,1-Dichloropropene	0.0381	0.00200	0.00152	mg/kg wet	0.0400		95	82-117			
Benzene	0.0397	0.00200	0.00124	mg/kg wet	0.0400		99	81-116			
1,2-Dichloroethane	0.0355	0.00200	0.000863	mg/kg wet	0.0400		89	72-121			
Trichloroethene (TCE)	0.0389	0.00200	0.00128	mg/kg wet	0.0400		97	79-117			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

LCS (B401092-BS1)						Prepared: 15-Jan-14 17:02	Analyzed: 15-Jan-14 17:02
1,2-Dichloropropane	0.0377	0.00200	0.00109	mg/kg wet	0.0400	94	80-114
Dibromomethane	0.0386	0.00200	0.000685	mg/kg wet	0.0400	96	77-117
Bromodichloromethane	0.0399	0.00200	0.000547	mg/kg wet	0.0400	100	76-120
2-Chloroethyl Vinyl Ether	0.111	0.0100	0.00356	mg/kg wet	0.100	111	56-139
cis-1,3-Dichloropropene	0.0407	0.00200	0.00101	mg/kg wet	0.0400	102	77-122
4-Methyl-2-Pentanone (MIBK)	0.0974	0.0200	0.00486	mg/kg wet	0.100	97	66-135
2-Hexanone	0.0890	0.0200	0.00553	mg/kg wet	0.100	89	63-134
Toluene	0.0407	0.00200	0.00121	mg/kg wet	0.0400	102	80-114
trans-1,3-Dichloropropene	0.0444	0.00200	0.00101	mg/kg wet	0.0400	111	69-123
1,1,2-Trichloroethane	0.0401	0.00200	0.000804	mg/kg wet	0.0400	100	79-113
Tetrachloroethene (PCE)	0.0430	0.0100	0.000833	mg/kg wet	0.0400	107	57-144
1,3-Dichloropropane	0.0389	0.00200	0.000802	mg/kg wet	0.0400	97	80-111
Dibromochloromethane	0.0449	0.0100	0.000515	mg/kg wet	0.0400	112	72-126
1,2-Dibromoethane (EDB)	0.0414	0.00200	0.000862	mg/kg wet	0.0400	103	78-118
Chlorobenzene	0.0411	0.00200	0.000960	mg/kg wet	0.0400	103	80-113
1,1,1,2-Tetrachloroethane	0.0470	0.00200	0.000812	mg/kg wet	0.0400	118	74-127
Ethylbenzene	0.0402	0.00200	0.00154	mg/kg wet	0.0400	101	80-118
m- & p-Xylenes	0.0822	0.00500	0.00425	mg/kg wet	0.0800	103	80-121
o-Xylene	0.0403	0.00200	0.00187	mg/kg wet	0.0400	101	78-124
Styrene	0.0407	0.00200	0.00156	mg/kg wet	0.0400	102	79-128
Bromoform	0.0470	0.00200	0.00101	mg/kg wet	0.0400	117	64-127
Isopropylbenzene (Cumene)	0.0402	0.00200	0.00191	mg/kg wet	0.0400	101	81-124
Bromobenzene	0.0415	0.00200	0.00106	mg/kg wet	0.0400	104	80-116
1,1,2,2-Tetrachloroethane	0.0381	0.00200	0.00100	mg/kg wet	0.0400	95	71-115
1,2,3-Trichloropropane	0.0377	0.00200	0.00164	mg/kg wet	0.0400	94	68-119
n-Propylbenzene	0.0404	0.00500	0.00182	mg/kg wet	0.0400	101	75-122
2-Chlorotoluene	0.0395	0.00200	0.00158	mg/kg wet	0.0400	99	77-114
4-Chlorotoluene	0.0401	0.00200	0.00166	mg/kg wet	0.0400	100	78-116
1,3,5-Trimethylbenzene	0.0404	0.00200	0.00176	mg/kg wet	0.0400	101	77-123
tert-Butyl Benzene	0.0403	0.00200	0.00185	mg/kg wet	0.0400	101	73-127
1,2,4-Trimethylbenzene	0.0407	0.00500	0.00264	mg/kg wet	0.0400	102	76-122
sec-Butyl Benzene	0.0400	0.00200	0.00181	mg/kg wet	0.0400	100	75-126
1,3-Dichlorobenzene	0.0418	0.00200	0.00134	mg/kg wet	0.0400	104	78-114



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

LCS (B401092-BS1)					Prepared: 15-Jan-14 17:02		Analyzed: 15-Jan-14 17:02			
p-Isopropyltoluene	0.0404	0.00200	0.00163	mg/kg wet	0.0400		101	76-122		
1,4-Dichlorobenzene	0.0410	0.00200	0.00125	mg/kg wet	0.0400		102	77-110		
1,2-Dichlorobenzene	0.0405	0.00200	0.00140	mg/kg wet	0.0400		101	79-113		
n-Butyl Benzene	0.0406	0.00500	0.00211	mg/kg wet	0.0400		101	77-125		
1,2-Dibromo-3-Chloropropane	0.0412	0.00500	0.00109	mg/kg wet	0.0400		103	50-132		
1,2,4-Trichlorobenzene	0.0423	0.00200	0.00197	mg/kg wet	0.0400		106	68-126		
Naphthalene	0.0387	0.00400	0.00263	mg/kg wet	0.0400		97	64-131		
Hexachlorobutadiene	0.0416	0.00300	0.00182	mg/kg wet	0.0400		104	66-125		
1,2,3-Trichlorobenzene	0.0416	0.00200	0.000181	mg/kg wet	0.0400		104	71-125		

Surrogate: Dibromofluoromethane	49.5			ug/kg	50.0		99	80-120		
Surrogate: 1,2-Dichloroethane-d4	45.7			ug/kg	50.0		91	80-120		
Surrogate: Toluene-d8	50.7			ug/kg	50.0		101	80-120		
Surrogate: 4-Bromofluorobenzene	48.6			ug/kg	50.0		97	68-120		

Matrix Spike (B401092-MS1)					Source: 1312116-01		Prepared: 15-Jan-14 19:57		Analyzed: 15-Jan-14 19:57		
Dichlorodifluoromethane	0.0295	0.00213	0.00175	mg/kg dry	0.0426	0.00175 U	69	57-135			
Chloromethane	0.0366	0.00213	0.00156	mg/kg dry	0.0426	0.00156 U	86	63-128			
Vinyl Chloride	0.0348	0.00213	0.00139	mg/kg dry	0.0426	0.00139 U	82	65-134			
Bromomethane	0.0394	0.00533	0.00229	mg/kg dry	0.0426	0.00229 U	92	11-147			
Chloroethane	0.0366	0.00213	0.000920	mg/kg dry	0.0426	0.000920 U	86	34-139			
Trichlorofluoromethane	0.0380	0.00213	0.00133	mg/kg dry	0.0426	0.00133 U	89	68-129			
1,1-Dichloroethene	0.0379	0.00213	0.00137	mg/kg dry	0.0426	0.00137 U	89	65-132			
Acetone	0.0947	0.0533	0.00390	mg/kg dry	0.107	0.00390 U	89	0-311			
Iodomethane (Methyl Iodide)	0.0325	0.0533	0.0121	mg/kg dry	0.0426	0.0121 U	76	35-139			I
Carbon Disulfide	0.0345	0.0107	0.000709	mg/kg dry	0.0426	0.000709 U	81	39-136			
Methylene Chloride	0.0439	0.0213	0.0157	mg/kg dry	0.0426	0.0157 U	103	38-160			
trans-1,2-Dichloroethene	0.0423	0.00213	0.00134	mg/kg dry	0.0426	0.00134 U	99	72-125			
Methyl tert-Butyl Ether (MTBE)	0.0408	0.00213	0.00135	mg/kg dry	0.0426	0.00135 U	96	68-123			
1,1-Dichloroethane	0.0407	0.00213	0.00113	mg/kg dry	0.0426	0.00113 U	95	74-121			
Vinyl Acetate	0.0551	0.0107	0.0103	mg/kg dry	0.107	0.0103 U	52	0-187			
2,2-Dichloropropane	0.0536	0.00213	0.00164	mg/kg dry	0.0426	0.00164 U	126	42-130			
cis-1,2-Dichloroethene	0.0430	0.00213	0.00136	mg/kg dry	0.0426	0.00136 U	101	76-121			
2-Butanone (MEK)	0.105	0.0107	0.00510	mg/kg dry	0.107	0.00510 U	99	22-151			
Bromochloromethane	0.0437	0.00213	0.000819	mg/kg dry	0.0426	0.000819 U	103	75-121			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

Matrix Spike (B401092-MS1)	Source: 1312116-01			Prepared: 15-Jan-14 19:57			Analyzed: 15-Jan-14 19:57				
Chloroform	0.0413	0.00213	0.000693	mg/kg dry	0.0426	0.000693 U	97	73-117			
1,1,1-Trichloroethane	0.0440	0.00213	0.00122	mg/kg dry	0.0426	0.00122 U	103	72-123			
Carbon Tetrachloride	0.0514	0.00213	0.00155	mg/kg dry	0.0426	0.00155 U	121	62-131			
1,1-Dichloropropene	0.0407	0.00213	0.00161	mg/kg dry	0.0426	0.00161 U	96	69-130			
Benzene	0.0429	0.00213	0.00132	mg/kg dry	0.0426	0.00132 U	101	70-123			
1,2-Dichloroethane	0.0397	0.00213	0.000919	mg/kg dry	0.0426	0.000919 U	93	69-119			
Trichloroethene (TCE)	0.0415	0.00213	0.00137	mg/kg dry	0.0426	0.00137 U	97	64-133			
1,2-Dichloropropane	0.0409	0.00213	0.00116	mg/kg dry	0.0426	0.00116 U	96	71-122			
Dibromomethane	0.0432	0.00213	0.000729	mg/kg dry	0.0426	0.000729 U	101	68-121			
Bromodichloromethane	0.0440	0.00213	0.000582	mg/kg dry	0.0426	0.000582 U	103	67-122			
2-Chloroethyl Vinyl Ether	0.116	0.0107	0.00379	mg/kg dry	0.107	0.00379 U	109	12-174			
cis-1,3-Dichloropropene	0.0440	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	103	56-130			
4-Methyl-2-Pentanone (MIBK)	0.110	0.0213	0.00518	mg/kg dry	0.107	0.00518 U	104	44-141			
2-Hexanone	0.103	0.0213	0.00589	mg/kg dry	0.107	0.00589 U	97	32-140			
Toluene	0.0432	0.00213	0.00128	mg/kg dry	0.0426	0.00128 U	101	64-126			
trans-1,3-Dichloropropene	0.0476	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	112	53-125			
1,1,2-Trichloroethane	0.0439	0.00213	0.000857	mg/kg dry	0.0426	0.000857 U	103	72-117			
Tetrachloroethene (PCE)	0.0470	0.0107	0.000887	mg/kg dry	0.0426	0.000887 U	110	28-183			
1,3-Dichloropropane	0.0428	0.00213	0.000855	mg/kg dry	0.0426	0.000855 U	101	72-117			
Dibromochloromethane	0.0493	0.0107	0.000549	mg/kg dry	0.0426	0.000549 U	116	57-130			
1,2-Dibromoethane (EDB)	0.0447	0.00213	0.000918	mg/kg dry	0.0426	0.000918 U	105	67-123			
Chlorobenzene	0.0441	0.00213	0.00102	mg/kg dry	0.0426	0.00102 U	103	64-124			
1,1,1,2-Tetrachloroethane	0.0506	0.00213	0.000865	mg/kg dry	0.0426	0.000865 U	119	59-132			
Ethylbenzene	0.0425	0.00213	0.00164	mg/kg dry	0.0426	0.00164 U	100	52-136			
m- & p-Xylenes	0.0870	0.00533	0.00453	mg/kg dry	0.0852	0.00453 U	102	51-137			
o-Xylene	0.0434	0.00213	0.00199	mg/kg dry	0.0426	0.00199 U	102	52-138			
Styrene	0.0432	0.00213	0.00166	mg/kg dry	0.0426	0.00166 U	102	42-143			
Bromoform	0.0518	0.00213	0.00108	mg/kg dry	0.0426	0.00108 U	122	42-130			
Isopropylbenzene (Cumene)	0.0428	0.00213	0.00203	mg/kg dry	0.0426	0.00203 U	100	40-149			
Bromobenzene	0.0441	0.00213	0.00113	mg/kg dry	0.0426	0.00113 U	104	50-136			
1,1,2,2-Tetrachloroethane	0.0422	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	99	46-142			
1,2,3-Trichloropropane	0.0413	0.00213	0.00175	mg/kg dry	0.0426	0.00175 U	97	54-136			
n-Propylbenzene	0.0427	0.00533	0.00194	mg/kg dry	0.0426	0.00194 U	100	35-161			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

Matrix Spike (B401092-MS1)	Source: 1312116-01			Prepared: 15-Jan-14 19:57			Analyzed: 15-Jan-14 19:57				
2-Chlorotoluene	0.0419	0.00213	0.00168	mg/kg dry	0.0426	0.00168 U	98	57-137			
4-Chlorotoluene	0.0424	0.00213	0.00176	mg/kg dry	0.0426	0.00176 U	100	53-141			
1,3,5-Trimethylbenzene	0.0427	0.00213	0.00188	mg/kg dry	0.0426	0.00188 U	100	36-156			
tert-Butyl Benzene	0.0422	0.00213	0.00197	mg/kg dry	0.0426	0.00197 U	99	41-149			
1,2,4-Trimethylbenzene	0.0425	0.00533	0.00281	mg/kg dry	0.0426	0.00281 U	100	30-161			
sec-Butyl Benzene	0.0420	0.00213	0.00192	mg/kg dry	0.0426	0.00192 U	99	33-153			
1,3-Dichlorobenzene	0.0433	0.00213	0.00142	mg/kg dry	0.0426	0.00142 U	102	47-135			
p-Isopropyltoluene	0.0418	0.00213	0.00174	mg/kg dry	0.0426	0.00174 U	98	32-147			
1,4-Dichlorobenzene	0.0427	0.00213	0.00133	mg/kg dry	0.0426	0.00133 U	100	46-131			
1,2-Dichlorobenzene	0.0424	0.00213	0.00149	mg/kg dry	0.0426	0.00149 U	99	44-135			
n-Butyl Benzene	0.0412	0.00533	0.00225	mg/kg dry	0.0426	0.00225 U	97	10-165			
1,2-Dibromo-3-Chloropropane	0.0462	0.00533	0.00116	mg/kg dry	0.0426	0.00116 U	108	27-145			
1,2,4-Trichlorobenzene	0.0394	0.00213	0.00210	mg/kg dry	0.0426	0.00210 U	92	0-170			
Naphthalene	0.0373	0.00426	0.00280	mg/kg dry	0.0426	0.00280 U	87	0-157			
Hexachlorobutadiene	0.0390	0.00320	0.00194	mg/kg dry	0.0426	0.00194 U	92	0-173			
1,2,3-Trichlorobenzene	0.0375	0.00213	0.000193	mg/kg dry	0.0426	0.000193 U	88	0-169			

Surrogate: Dibromofluoromethane	50.6		ug/kg	50.0	101	80-120
Surrogate: 1,2-Dichloroethane-d4	47.2		ug/kg	50.0	94	80-120
Surrogate: Toluene-d8	51.2		ug/kg	50.0	102	80-120
Surrogate: 4-Bromofluorobenzene	48.6		ug/kg	50.0	97	68-120

Matrix Spike Dup (B401092-MSD1)	Source: 1312116-01			Prepared: 15-Jan-14 20:25			Analyzed: 15-Jan-14 20:25				
Dichlorodifluoromethane	0.0286	0.00213	0.00175	mg/kg dry	0.0426	0.00175 U	67	57-135	3	23	
Chloromethane	0.0361	0.00213	0.00156	mg/kg dry	0.0426	0.00156 U	85	63-128	1	20	
Vinyl Chloride	0.0341	0.00213	0.00139	mg/kg dry	0.0426	0.00139 U	80	65-134	2	20	
Bromomethane	0.0369	0.00533	0.00229	mg/kg dry	0.0426	0.00229 U	86	11-147	7	20	
Chloroethane	0.0362	0.00213	0.000920	mg/kg dry	0.0426	0.000920 U	85	34-139	1	20	
Trichlorofluoromethane	0.0375	0.00213	0.00133	mg/kg dry	0.0426	0.00133 U	88	68-129	1	20	
1,1-Dichloroethene	0.0371	0.00213	0.00137	mg/kg dry	0.0426	0.00137 U	87	65-132	2	22	
Acetone	0.0902	0.0533	0.00390	mg/kg dry	0.107	0.00390 U	85	0-311	5	21	
Iodomethane (Methyl Iodide)	0.0444	0.0533	0.0121	mg/kg dry	0.0426	0.0121 U	104	35-139	31	30	I
Carbon Disulfide	0.0342	0.0107	0.000709	mg/kg dry	0.0426	0.000709 U	80	39-136	0.8	20	
Methylene Chloride	0.0460	0.0213	0.0157	mg/kg dry	0.0426	0.0157 U	108	38-160	5	35	
trans-1,2-Dichloroethene	0.0421	0.00213	0.00134	mg/kg dry	0.0426	0.00134 U	99	72-125	0.5	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

Matrix Spike Dup (B401092-MSD1)	Source: 1312116-01			Prepared: 15-Jan-14 20:25			Analyzed: 15-Jan-14 20:25				
Methyl tert-Butyl Ether (MTBE)	0.0409	0.00213	0.00135	mg/kg dry	0.0426	0.00135 U	96	68-123	0.03	20	
1,1-Dichloroethane	0.0403	0.00213	0.00113	mg/kg dry	0.0426	0.00113 U	94	74-121	1	20	
Vinyl Acetate	0.0705	0.0107	0.0103	mg/kg dry	0.107	0.0103 U	66	0-187	25	30	
2,2-Dichloropropane	0.0538	0.00213	0.00164	mg/kg dry	0.0426	0.00164 U	126	42-130	0.4	20	
cis-1,2-Dichloroethene	0.0427	0.00213	0.00136	mg/kg dry	0.0426	0.00136 U	100	76-121	0.7	20	
2-Butanone (MEK)	0.103	0.0107	0.00510	mg/kg dry	0.107	0.00510 U	96	22-151	3	20	
Bromochloromethane	0.0426	0.00213	0.000819	mg/kg dry	0.0426	0.000819 U	100	75-121	3	20	
Chloroform	0.0405	0.00213	0.000693	mg/kg dry	0.0426	0.000693 U	95	73-117	2	20	
1,1,1-Trichloroethane	0.0440	0.00213	0.00122	mg/kg dry	0.0426	0.00122 U	103	72-123	0.07	20	
Carbon Tetrachloride	0.0513	0.00213	0.00155	mg/kg dry	0.0426	0.00155 U	120	62-131	0.2	20	
1,1-Dichloropropene	0.0400	0.00213	0.00161	mg/kg dry	0.0426	0.00161 U	94	69-130	2	20	
Benzene	0.0422	0.00213	0.00132	mg/kg dry	0.0426	0.00132 U	99	70-123	2	21	
1,2-Dichloroethane	0.0390	0.00213	0.000919	mg/kg dry	0.0426	0.000919 U	91	69-119	2	20	
Trichloroethene (TCE)	0.0403	0.00213	0.00137	mg/kg dry	0.0426	0.00137 U	94	64-133	3	24	
1,2-Dichloropropane	0.0406	0.00213	0.00116	mg/kg dry	0.0426	0.00116 U	95	71-122	0.7	20	
Dibromomethane	0.0421	0.00213	0.000729	mg/kg dry	0.0426	0.000729 U	99	68-121	3	23	
Bromodichloromethane	0.0435	0.00213	0.000582	mg/kg dry	0.0426	0.000582 U	102	67-122	1	20	
2-Chloroethyl Vinyl Ether	0.110	0.0107	0.00379	mg/kg dry	0.107	0.00379 U	103	12-174	5	30	
cis-1,3-Dichloropropene	0.0439	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	103	56-130	0.2	20	
4-Methyl-2-Pentanone (MIBK)	0.108	0.0213	0.00518	mg/kg dry	0.107	0.00518 U	101	44-141	2	25	
2-Hexanone	0.0992	0.0213	0.00589	mg/kg dry	0.107	0.00589 U	93	32-140	4	21	
Toluene	0.0422	0.00213	0.00128	mg/kg dry	0.0426	0.00128 U	99	64-126	2	21	
trans-1,3-Dichloropropene	0.0480	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	113	53-125	0.8	20	
1,1,2-Trichloroethane	0.0425	0.00213	0.000857	mg/kg dry	0.0426	0.000857 U	100	72-117	3	20	
Tetrachloroethene (PCE)	0.0453	0.0107	0.000887	mg/kg dry	0.0426	0.000887 U	106	28-183	4	20	
1,3-Dichloropropane	0.0420	0.00213	0.000855	mg/kg dry	0.0426	0.000855 U	99	72-117	2	20	
Dibromochloromethane	0.0482	0.0107	0.000549	mg/kg dry	0.0426	0.000549 U	113	57-130	2	20	
1,2-Dibromoethane (EDB)	0.0434	0.00213	0.000918	mg/kg dry	0.0426	0.000918 U	102	67-123	3	20	
Chlorobenzene	0.0429	0.00213	0.00102	mg/kg dry	0.0426	0.00102 U	101	64-124	3	21	
1,1,1,2-Tetrachloroethane	0.0506	0.00213	0.000865	mg/kg dry	0.0426	0.000865 U	119	59-132	0.02	20	
Ethylbenzene	0.0419	0.00213	0.00164	mg/kg dry	0.0426	0.00164 U	98	52-136	1	20	
m- & p-Xylenes	0.0853	0.00533	0.00453	mg/kg dry	0.0852	0.00453 U	100	51-137	2	20	
o-Xylene	0.0421	0.00213	0.00199	mg/kg dry	0.0426	0.00199 U	99	52-138	3	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401092 - Prep Method: 5035 (low)

Matrix Spike Dup (B401092-MSD1)	Source: 1312116-01			Prepared: 15-Jan-14 20:25			Analyzed: 15-Jan-14 20:25				
Styrene	0.0428	0.00213	0.00166	mg/kg dry	0.0426	0.00166 U	100	42-143	1	20	
Bromoform	0.0518	0.00213	0.00108	mg/kg dry	0.0426	0.00108 U	122	42-130	0.04	20	
Isopropylbenzene (Cumene)	0.0417	0.00213	0.00203	mg/kg dry	0.0426	0.00203 U	98	40-149	3	20	
Bromobenzene	0.0435	0.00213	0.00113	mg/kg dry	0.0426	0.00113 U	102	50-136	1	20	
1,1,2,2-Tetrachloroethane	0.0414	0.00213	0.00107	mg/kg dry	0.0426	0.00107 U	97	46-142	2	31	
1,2,3-Trichloropropane	0.0409	0.00213	0.00175	mg/kg dry	0.0426	0.00175 U	96	54-136	1	20	
n-Propylbenzene	0.0417	0.00533	0.00194	mg/kg dry	0.0426	0.00194 U	98	35-161	2	20	
2-Chlorotoluene	0.0413	0.00213	0.00168	mg/kg dry	0.0426	0.00168 U	97	57-137	1	20	
4-Chlorotoluene	0.0414	0.00213	0.00176	mg/kg dry	0.0426	0.00176 U	97	53-141	2	20	
1,3,5-Trimethylbenzene	0.0421	0.00213	0.00188	mg/kg dry	0.0426	0.00188 U	99	36-156	2	20	
tert-Butyl Benzene	0.0416	0.00213	0.00197	mg/kg dry	0.0426	0.00197 U	98	41-149	1	20	
1,2,4-Trimethylbenzene	0.0418	0.00533	0.00281	mg/kg dry	0.0426	0.00281 U	98	30-161	2	20	
sec-Butyl Benzene	0.0415	0.00213	0.00192	mg/kg dry	0.0426	0.00192 U	97	33-153	1	20	
1,3-Dichlorobenzene	0.0426	0.00213	0.00142	mg/kg dry	0.0426	0.00142 U	100	47-135	2	20	
p-Isopropyltoluene	0.0415	0.00213	0.00174	mg/kg dry	0.0426	0.00174 U	97	32-147	0.7	20	
1,4-Dichlorobenzene	0.0429	0.00213	0.00133	mg/kg dry	0.0426	0.00133 U	101	46-131	0.2	20	
1,2-Dichlorobenzene	0.0418	0.00213	0.00149	mg/kg dry	0.0426	0.00149 U	98	44-135	1	20	
n-Butyl Benzene	0.0411	0.00533	0.00225	mg/kg dry	0.0426	0.00225 U	97	10-165	0.03	20	
1,2-Dibromo-3-Chloropropane	0.0444	0.00533	0.00116	mg/kg dry	0.0426	0.00116 U	104	27-145	4	28	
1,2,4-Trichlorobenzene	0.0401	0.00213	0.00210	mg/kg dry	0.0426	0.00210 U	94	0-170	2	20	
Naphthalene	0.0383	0.00426	0.00280	mg/kg dry	0.0426	0.00280 U	90	0-157	3	20	
Hexachlorobutadiene	0.0390	0.00320	0.00194	mg/kg dry	0.0426	0.00194 U	92	0-173	0.08	20	
1,2,3-Trichlorobenzene	0.0385	0.00213	0.000193	mg/kg dry	0.0426	0.000193 U	90	0-169	3	20	
Surrogate: Dibromofluoromethane	51.0			ug/kg	50.0		102	80-120			
Surrogate: 1,2-Dichloroethane-d4	46.8			ug/kg	50.0		94	80-120			
Surrogate: Toluene-d8	50.9			ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	48.6			ug/kg	50.0		97	68-120			



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Reported:
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EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD Limits	RPD RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Blank (B401112-BLK1)

Prepared: 17-Jan-14 18:22

Analyzed: 17-Jan-14 18:22

Dichlorodifluoromethane	0.00164 U	0.00200	0.00164	mg/kg wet
Chloromethane	0.00147 U	0.00200	0.00147	mg/kg wet
Vinyl Chloride	0.00130 U	0.00200	0.00130	mg/kg wet
Bromomethane	0.00215 U	0.00500	0.00215	mg/kg wet
Chloroethane	0.000864 U	0.00200	0.000864	mg/kg wet
Trichlorofluoromethane	0.00125 U	0.00200	0.00125	mg/kg wet
1,1-Dichloroethene	0.00129 U	0.00200	0.00129	mg/kg wet
Acetone	0.00366 U	0.0500	0.00366	mg/kg wet
Iodomethane (Methyl Iodide)	0.0113 U	0.0500	0.0113	mg/kg wet
Carbon Disulfide	0.000666 U	0.0100	0.000666	mg/kg wet
Methylene Chloride	0.0147 U	0.0200	0.0147	mg/kg wet
trans-1,2-Dichloroethene	0.00126 U	0.00200	0.00126	mg/kg wet
Methyl tert-Butyl Ether (MTBE)	0.00126 U	0.00200	0.00126	mg/kg wet
1,1-Dichloroethane	0.00106 U	0.00200	0.00106	mg/kg wet
Vinyl Acetate	0.00964 U	0.0100	0.00964	mg/kg wet
2,2-Dichloropropane	0.00154 U	0.00200	0.00154	mg/kg wet
cis-1,2-Dichloroethene	0.00127 U	0.00200	0.00127	mg/kg wet
2-Butanone (MEK)	0.00479 U	0.0100	0.00479	mg/kg wet
Bromochloromethane	0.000769 U	0.00200	0.000769	mg/kg wet
Chloroform	0.000651 U	0.00200	0.000651	mg/kg wet
1,1,1-Trichloroethane	0.00114 U	0.00200	0.00114	mg/kg wet
Carbon Tetrachloride	0.00145 U	0.00200	0.00145	mg/kg wet
1,1-Dichloropropene	0.00152 U	0.00200	0.00152	mg/kg wet
Benzene	0.00124 U	0.00200	0.00124	mg/kg wet
1,2-Dichloroethane	0.000863 U	0.00200	0.000863	mg/kg wet
Trichloroethene (TCE)	0.00128 U	0.00200	0.00128	mg/kg wet
1,2-Dichloropropane	0.00109 U	0.00200	0.00109	mg/kg wet
Dibromomethane	0.000685 U	0.00200	0.000685	mg/kg wet
Bromodichloromethane	0.000547 U	0.00200	0.000547	mg/kg wet
2-Chloroethyl Vinyl Ether	0.00356 U	0.0100	0.00356	mg/kg wet
cis-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
4-Methyl-2-Pentanone (MIBK)	0.00486 U	0.0200	0.00486	mg/kg wet
2-Hexanone	0.00553 U	0.0200	0.00553	mg/kg wet



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	Limit	Limit	Qualifiers

Batch: B401112 - Prep Method: 5035 (low)

Blank (B401112-BLK1)

Prepared: 17-Jan-14 18:22

Analyzed: 17-Jan-14 18:22

Toluene	0.00121 U	0.00200	0.00121	mg/kg wet
trans-1,3-Dichloropropene	0.00101 U	0.00200	0.00101	mg/kg wet
1,1,2-Trichloroethane	0.000804 U	0.00200	0.000804	mg/kg wet
Tetrachloroethene (PCE)	0.000833 U	0.0100	0.000833	mg/kg wet
1,3-Dichloropropane	0.000802 U	0.00200	0.000802	mg/kg wet
Dibromochloromethane	0.000515 U	0.0100	0.000515	mg/kg wet
1,2-Dibromoethane (EDB)	0.000862 U	0.00200	0.000862	mg/kg wet
Chlorobenzene	0.000960 U	0.00200	0.000960	mg/kg wet
1,1,1,2-Tetrachloroethane	0.000812 U	0.00200	0.000812	mg/kg wet
Ethylbenzene	0.00154 U	0.00200	0.00154	mg/kg wet
m- & p-Xylenes	0.00425 U	0.00500	0.00425	mg/kg wet
o-Xylene	0.00187 U	0.00200	0.00187	mg/kg wet
Styrene	0.00156 U	0.00200	0.00156	mg/kg wet
Bromoform	0.00101 U	0.00200	0.00101	mg/kg wet
Isopropylbenzene (Cumene)	0.00191 U	0.00200	0.00191	mg/kg wet
Bromobenzene	0.00106 U	0.00200	0.00106	mg/kg wet
1,1,2,2-Tetrachloroethane	0.00100 U	0.00200	0.00100	mg/kg wet
1,2,3-Trichloropropane	0.00164 U	0.00200	0.00164	mg/kg wet
n-Propylbenzene	0.00182 U	0.00500	0.00182	mg/kg wet
2-Chlorotoluene	0.00158 U	0.00200	0.00158	mg/kg wet
4-Chlorotoluene	0.00166 U	0.00200	0.00166	mg/kg wet
1,3,5-Trimethylbenzene	0.00176 U	0.00200	0.00176	mg/kg wet
tert-Butyl Benzene	0.00185 U	0.00200	0.00185	mg/kg wet
1,2,4-Trimethylbenzene	0.00264 U	0.00500	0.00264	mg/kg wet
sec-Butyl Benzene	0.00181 U	0.00200	0.00181	mg/kg wet
1,3-Dichlorobenzene	0.00134 U	0.00200	0.00134	mg/kg wet
p-Isopropyltoluene	0.00163 U	0.00200	0.00163	mg/kg wet
1,4-Dichlorobenzene	0.00125 U	0.00200	0.00125	mg/kg wet
1,2-Dichlorobenzene	0.00140 U	0.00200	0.00140	mg/kg wet
n-Butyl Benzene	0.00211 U	0.00500	0.00211	mg/kg wet
1,2-Dibromo-3-Chloropropane	0.00109 U	0.00500	0.00109	mg/kg wet
1,2,4-Trichlorobenzene	0.00197 U	0.00200	0.00197	mg/kg wet
Naphthalene	0.00263 U	0.00400	0.00263	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Blank (B401112-BLK1)					Prepared: 17-Jan-14 18:22		Analyzed: 17-Jan-14 18:22			
Hexachlorobutadiene	0.00182 U	0.00300	0.00182	mg/kg wet						
1,2,3-Trichlorobenzene	0.000181 U	0.00200	0.000181	mg/kg wet						

Surrogate: Dibromofluoromethane	51.2			ug/kg	50.0		102	80-120		
Surrogate: 1,2-Dichloroethane-d4	50.0			ug/kg	50.0		100	80-120		
Surrogate: Toluene-d8	50.1			ug/kg	50.0		100	80-120		
Surrogate: 4-Bromofluorobenzene	49.4			ug/kg	50.0		99	68-120		

LCS (B401112-BS1)					Prepared: 17-Jan-14 18:50		Analyzed: 17-Jan-14 18:50			
Dichlorodifluoromethane	0.0383	0.00200	0.00164	mg/kg wet	0.0400		96	65-129		
Chloromethane	0.0390	0.00200	0.00147	mg/kg wet	0.0400		97	71-119		
Vinyl Chloride	0.0384	0.00200	0.00130	mg/kg wet	0.0400		96	74-121		
Bromomethane	0.0406	0.00500	0.00215	mg/kg wet	0.0400		102	39-142		
Chloroethane	0.0384	0.00200	0.000864	mg/kg wet	0.0400		96	69-121		
Trichlorofluoromethane	0.0392	0.00200	0.00125	mg/kg wet	0.0400		98	69-132		
1,1-Dichloroethene	0.0392	0.00200	0.00129	mg/kg wet	0.0400		98	69-128		
Acetone	0.0894	0.0500	0.00366	mg/kg wet	0.100		89	52-133		
Iodomethane (Methyl Iodide)	0.0273	0.0500	0.0113	mg/kg wet	0.0400		68	33-137		I
Carbon Disulfide	0.0373	0.0100	0.000666	mg/kg wet	0.0400		93	64-125		
Methylene Chloride	0.0319	0.0200	0.0147	mg/kg wet	0.0400		80	44-151		
trans-1,2-Dichloroethene	0.0393	0.00200	0.00126	mg/kg wet	0.0400		98	80-116		
Methyl tert-Butyl Ether (MTBE)	0.0390	0.00200	0.00126	mg/kg wet	0.0400		98	71-120		
1,1-Dichloroethane	0.0393	0.00200	0.00106	mg/kg wet	0.0400		98	80-114		
Vinyl Acetate	0.0718	0.0100	0.00964	mg/kg wet	0.100		72	25-172		
2,2-Dichloropropane	0.0383	0.00200	0.00154	mg/kg wet	0.0400		96	49-139		
cis-1,2-Dichloroethene	0.0396	0.00200	0.00127	mg/kg wet	0.0400		99	80-117		
2-Butanone (MEK)	0.0891	0.0100	0.00479	mg/kg wet	0.100		89	61-129		
Bromochloromethane	0.0398	0.00200	0.000769	mg/kg wet	0.0400		100	79-119		
Chloroform	0.0386	0.00200	0.000651	mg/kg wet	0.0400		97	74-117		
1,1,1-Trichloroethane	0.0390	0.00200	0.00114	mg/kg wet	0.0400		98	77-121		
Carbon Tetrachloride	0.0393	0.00200	0.00145	mg/kg wet	0.0400		98	72-132		
1,1-Dichloropropene	0.0394	0.00200	0.00152	mg/kg wet	0.0400		99	82-117		
Benzene	0.0396	0.00200	0.00124	mg/kg wet	0.0400		99	81-116		
1,2-Dichloroethane	0.0394	0.00200	0.000863	mg/kg wet	0.0400		99	72-121		
Trichloroethene (TCE)	0.0394	0.00200	0.00128	mg/kg wet	0.0400		99	79-117		



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

LCS (B401112-BS1)						Prepared: 17-Jan-14 18:50	Analyzed: 17-Jan-14 18:50
1,2-Dichloropropane	0.0397	0.00200	0.00109	mg/kg wet	0.0400	99	80-114
Dibromomethane	0.0395	0.00200	0.000685	mg/kg wet	0.0400	99	77-117
Bromodichloromethane	0.0396	0.00200	0.000547	mg/kg wet	0.0400	99	76-120
2-Chloroethyl Vinyl Ether	0.0957	0.0100	0.00356	mg/kg wet	0.100	96	56-139
cis-1,3-Dichloropropene	0.0387	0.00200	0.00101	mg/kg wet	0.0400	97	77-122
4-Methyl-2-Pentanone (MIBK)	0.0991	0.0200	0.00486	mg/kg wet	0.100	99	66-135
2-Hexanone	0.0976	0.0200	0.00553	mg/kg wet	0.100	98	63-134
Toluene	0.0391	0.00200	0.00121	mg/kg wet	0.0400	98	80-114
trans-1,3-Dichloropropene	0.0381	0.00200	0.00101	mg/kg wet	0.0400	95	69-123
1,1,2-Trichloroethane	0.0394	0.00200	0.000804	mg/kg wet	0.0400	99	79-113
Tetrachloroethene (PCE)	0.0394	0.0100	0.000833	mg/kg wet	0.0400	98	57-144
1,3-Dichloropropane	0.0392	0.00200	0.000802	mg/kg wet	0.0400	98	80-111
Dibromochloromethane	0.0394	0.0100	0.000515	mg/kg wet	0.0400	99	72-126
1,2-Dibromoethane (EDB)	0.0388	0.00200	0.000862	mg/kg wet	0.0400	97	78-118
Chlorobenzene	0.0391	0.00200	0.000960	mg/kg wet	0.0400	98	80-113
1,1,1,2-Tetrachloroethane	0.0395	0.00200	0.000812	mg/kg wet	0.0400	99	74-127
Ethylbenzene	0.0406	0.00200	0.00154	mg/kg wet	0.0400	102	80-118
m- & p-Xylenes	0.0814	0.00500	0.00425	mg/kg wet	0.0800	102	80-121
o-Xylene	0.0410	0.00200	0.00187	mg/kg wet	0.0400	103	78-124
Styrene	0.0411	0.00200	0.00156	mg/kg wet	0.0400	103	79-128
Bromoform	0.0382	0.00200	0.00101	mg/kg wet	0.0400	95	64-127
Isopropylbenzene (Cumene)	0.0414	0.00200	0.00191	mg/kg wet	0.0400	104	81-124
Bromobenzene	0.0397	0.00200	0.00106	mg/kg wet	0.0400	99	80-116
1,1,2,2-Tetrachloroethane	0.0386	0.00200	0.00100	mg/kg wet	0.0400	96	71-115
1,2,3-Trichloropropane	0.0374	0.00200	0.00164	mg/kg wet	0.0400	94	68-119
n-Propylbenzene	0.0405	0.00500	0.00182	mg/kg wet	0.0400	101	75-122
2-Chlorotoluene	0.0398	0.00200	0.00158	mg/kg wet	0.0400	99	77-114
4-Chlorotoluene	0.0402	0.00200	0.00166	mg/kg wet	0.0400	100	78-116
1,3,5-Trimethylbenzene	0.0407	0.00200	0.00176	mg/kg wet	0.0400	102	77-123
tert-Butyl Benzene	0.0408	0.00200	0.00185	mg/kg wet	0.0400	102	73-127
1,2,4-Trimethylbenzene	0.0408	0.00500	0.00264	mg/kg wet	0.0400	102	76-122
sec-Butyl Benzene	0.0412	0.00200	0.00181	mg/kg wet	0.0400	103	75-126
1,3-Dichlorobenzene	0.0392	0.00200	0.00134	mg/kg wet	0.0400	98	78-114



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

LCS (B401112-BS1)					Prepared: 17-Jan-14 18:50		Analyzed: 17-Jan-14 18:50				
p-Isopropyltoluene	0.0399	0.00200	0.00163	mg/kg wet	0.0400		100	76-122			
1,4-Dichlorobenzene	0.0386	0.00200	0.00125	mg/kg wet	0.0400		96	77-110			
1,2-Dichlorobenzene	0.0403	0.00200	0.00140	mg/kg wet	0.0400		101	79-113			
n-Butyl Benzene	0.0410	0.00500	0.00211	mg/kg wet	0.0400		103	77-125			
1,2-Dibromo-3-Chloropropane	0.0385	0.00500	0.00109	mg/kg wet	0.0400		96	50-132			
1,2,4-Trichlorobenzene	0.0396	0.00200	0.00197	mg/kg wet	0.0400		99	68-126			
Naphthalene	0.0411	0.00400	0.00263	mg/kg wet	0.0400		103	64-131			
Hexachlorobutadiene	0.0401	0.00300	0.00182	mg/kg wet	0.0400		100	66-125			
1,2,3-Trichlorobenzene	0.0401	0.00200	0.000181	mg/kg wet	0.0400		100	71-125			

Surrogate: Dibromofluoromethane	50.8			ug/kg	50.0		102	80-120			
Surrogate: 1,2-Dichloroethane-d4	49.9			ug/kg	50.0		100	80-120			
Surrogate: Toluene-d8	50.5			ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	50.9			ug/kg	50.0		102	68-120			

Matrix Spike (B401112-MS1)					Source: 1312115-01		Prepared: 17-Jan-14 21:39		Analyzed: 17-Jan-14 21:39		
Dichlorodifluoromethane	0.0513	0.00255	0.00210	mg/kg dry	0.0511	0.00210 U	101	57-135			
Chloromethane	0.0512	0.00255	0.00187	mg/kg dry	0.0511	0.00187 U	100	63-128			
Vinyl Chloride	0.0501	0.00255	0.00166	mg/kg dry	0.0511	0.00166 U	98	65-134			
Bromomethane	0.0512	0.00638	0.00275	mg/kg dry	0.0511	0.00275 U	100	11-147			
Chloroethane	0.0503	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	98	34-139			
Trichlorofluoromethane	0.0513	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	101	68-129			
1,1-Dichloroethene	0.0504	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	99	65-132			
Acetone	0.0999	0.0638	0.00468	mg/kg dry	0.128	0.00468 U	78	0-311			
Iodomethane (Methyl Iodide)	0.0366	0.0638	0.0145	mg/kg dry	0.0511	0.0145 U	72	35-139			I
Carbon Disulfide	0.0484	0.0128	0.000850	mg/kg dry	0.0511	0.000850 U	95	39-136			
Methylene Chloride	0.0479	0.0255	0.0188	mg/kg dry	0.0511	0.0188 U	94	38-160			
trans-1,2-Dichloroethene	0.0510	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	100	72-125			
Methyl tert-Butyl Ether (MTBE)	0.0472	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	92	68-123			
1,1-Dichloroethane	0.0506	0.00255	0.00135	mg/kg dry	0.0511	0.00135 U	99	74-121			
Vinyl Acetate	0.0437	0.0128	0.0123	mg/kg dry	0.128	0.0123 U	34	0-187			
2,2-Dichloropropane	0.0495	0.00255	0.00196	mg/kg dry	0.0511	0.00196 U	97	42-130			
cis-1,2-Dichloroethene	0.0511	0.00255	0.00163	mg/kg dry	0.0511	0.00163 U	100	76-121			
2-Butanone (MEK)	0.101	0.0128	0.00611	mg/kg dry	0.128	0.00611 U	79	22-151			
Bromochloromethane	0.0483	0.00255	0.000982	mg/kg dry	0.0511	0.000982 U	95	75-121			



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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
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Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike (B401112-MS1)	Source: 1312115-01			Prepared: 17-Jan-14 21:39			Analyzed: 17-Jan-14 21:39				
Chloroform	0.0496	0.00255	0.000831	mg/kg dry	0.0511	0.000831 U	97	73-117			
1,1,1-Trichloroethane	0.0507	0.00255	0.00146	mg/kg dry	0.0511	0.00146 U	99	72-123			
Carbon Tetrachloride	0.0508	0.00255	0.00185	mg/kg dry	0.0511	0.00185 U	99	62-131			
1,1-Dichloropropene	0.0510	0.00255	0.00193	mg/kg dry	0.0511	0.00193 U	100	69-130			
Benzene	0.0510	0.00255	0.00158	mg/kg dry	0.0511	0.00158 U	100	70-123			
1,2-Dichloroethane	0.0492	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	96	69-119			
Trichloroethene (TCE)	0.0507	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	99	64-133			
1,2-Dichloropropane	0.0501	0.00255	0.00139	mg/kg dry	0.0511	0.00139 U	98	71-122			
Dibromomethane	0.0483	0.00255	0.000874	mg/kg dry	0.0511	0.000874 U	95	68-121			
Bromodichloromethane	0.0503	0.00255	0.000698	mg/kg dry	0.0511	0.000698 U	98	67-122			
2-Chloroethyl Vinyl Ether	0.0992	0.0128	0.00455	mg/kg dry	0.128	0.00455 U	78	12-174			
cis-1,3-Dichloropropene	0.0489	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	96	56-130			
4-Methyl-2-Pentanone (MIBK)	0.111	0.0255	0.00621	mg/kg dry	0.128	0.00621 U	87	44-141			
2-Hexanone	0.109	0.0255	0.00706	mg/kg dry	0.128	0.00706 U	85	32-140			
Toluene	0.0515	0.00255	0.00154	mg/kg dry	0.0511	0.00154 U	101	64-126			
trans-1,3-Dichloropropene	0.0477	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	93	53-125			
1,1,2-Trichloroethane	0.0503	0.00255	0.00103	mg/kg dry	0.0511	0.00103 U	98	72-117			
Tetrachloroethene (PCE)	0.0528	0.0128	0.00106	mg/kg dry	0.0511	0.00106 U	103	28-183			
1,3-Dichloropropane	0.0489	0.00255	0.00102	mg/kg dry	0.0511	0.00102 U	96	72-117			
Dibromochloromethane	0.0498	0.0128	0.000657	mg/kg dry	0.0511	0.000657 U	98	57-130			
1,2-Dibromoethane (EDB)	0.0487	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	95	67-123			
Chlorobenzene	0.0510	0.00255	0.00123	mg/kg dry	0.0511	0.00123 U	100	64-124			
1,1,1,2-Tetrachloroethane	0.0515	0.00255	0.00104	mg/kg dry	0.0511	0.00104 U	101	59-132			
Ethylbenzene	0.0530	0.00255	0.00197	mg/kg dry	0.0511	0.00197 U	104	52-136			
m- & p-Xylenes	0.106	0.00638	0.00543	mg/kg dry	0.102	0.00543 U	104	51-137			
o-Xylene	0.0541	0.00255	0.00239	mg/kg dry	0.0511	0.00239 U	106	52-138			
Styrene	0.0529	0.00255	0.00199	mg/kg dry	0.0511	0.00199 U	104	42-143			
Bromoform	0.0472	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	92	42-130			
Isopropylbenzene (Cumene)	0.0539	0.00255	0.00243	mg/kg dry	0.0511	0.00243 U	106	40-149			
Bromobenzene	0.0505	0.00255	0.00136	mg/kg dry	0.0511	0.00136 U	99	50-136			
1,1,2,2-Tetrachloroethane	0.0458	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	90	46-142			
1,2,3-Trichloropropane	0.0478	0.00255	0.00209	mg/kg dry	0.0511	0.00209 U	94	54-136			
n-Propylbenzene	0.0522	0.00638	0.00233	mg/kg dry	0.0511	0.00233 U	102	35-161			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike (B401112-MS1)	Source: 1312115-01			Prepared: 17-Jan-14 21:39			Analyzed: 17-Jan-14 21:39				
2-Chlorotoluene	0.0513	0.00255	0.00202	mg/kg dry	0.0511	0.00202 U	100	57-137			
4-Chlorotoluene	0.0520	0.00255	0.00211	mg/kg dry	0.0511	0.00211 U	102	53-141			
1,3,5-Trimethylbenzene	0.0528	0.00255	0.00225	mg/kg dry	0.0511	0.00225 U	103	36-156			
tert-Butyl Benzene	0.0520	0.00255	0.00236	mg/kg dry	0.0511	0.00236 U	102	41-149			
1,2,4-Trimethylbenzene	0.0526	0.00638	0.00337	mg/kg dry	0.0511	0.00337 U	103	30-161			
sec-Butyl Benzene	0.0533	0.00255	0.00231	mg/kg dry	0.0511	0.00231 U	104	33-153			
1,3-Dichlorobenzene	0.0498	0.00255	0.00171	mg/kg dry	0.0511	0.00171 U	97	47-135			
p-Isopropyltoluene	0.0515	0.00255	0.00208	mg/kg dry	0.0511	0.00208 U	101	32-147			
1,4-Dichlorobenzene	0.0490	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	96	46-131			
1,2-Dichlorobenzene	0.0503	0.00255	0.00179	mg/kg dry	0.0511	0.00179 U	99	44-135			
n-Butyl Benzene	0.0527	0.00638	0.00269	mg/kg dry	0.0511	0.00269 U	103	10-165			
1,2-Dibromo-3-Chloropropane	0.0441	0.00638	0.00139	mg/kg dry	0.0511	0.00139 U	86	27-145			
1,2,4-Trichlorobenzene	0.0484	0.00255	0.00251	mg/kg dry	0.0511	0.00251 U	95	0-170			
Naphthalene	0.0478	0.00511	0.00335	mg/kg dry	0.0511	0.00335 U	94	0-157			
Hexachlorobutadiene	0.0506	0.00383	0.00232	mg/kg dry	0.0511	0.00232 U	99	0-173			
1,2,3-Trichlorobenzene	0.0492	0.00255	0.000231	mg/kg dry	0.0511	0.000231 U	96	0-169			

Surrogate: Dibromofluoromethane	49.9			ug/kg	50.0		100	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.2			ug/kg	50.0		96	80-120			
Surrogate: Toluene-d8	51.1			ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/kg	50.0		101	68-120			

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Dichlorodifluoromethane	0.0485	0.00255	0.00210	mg/kg dry	0.0511	0.00210 U	95	57-135	6	23	
Chloromethane	0.0483	0.00255	0.00187	mg/kg dry	0.0511	0.00187 U	95	63-128	6	20	
Vinyl Chloride	0.0481	0.00255	0.00166	mg/kg dry	0.0511	0.00166 U	94	65-134	4	20	
Bromomethane	0.0469	0.00638	0.00275	mg/kg dry	0.0511	0.00275 U	92	11-147	9	20	
Chloroethane	0.0477	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	94	34-139	5	20	
Trichlorofluoromethane	0.0493	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	97	68-129	4	20	
1,1-Dichloroethene	0.0488	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	96	65-132	3	22	
Acetone	0.100	0.0638	0.00468	mg/kg dry	0.128	0.00468 U	78	0-311	0.2	21	
Iodomethane (Methyl Iodide)	0.0478	0.0638	0.0145	mg/kg dry	0.0511	0.0145 U	94	35-139	27	30	I
Carbon Disulfide	0.0461	0.0128	0.000850	mg/kg dry	0.0511	0.000850 U	90	39-136	5	20	
Methylene Chloride	0.0432	0.0255	0.0188	mg/kg dry	0.0511	0.0188 U	85	38-160	10	35	
trans-1,2-Dichloroethene	0.0488	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	96	72-125	4	20	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Methyl tert-Butyl Ether (MTBE)	0.0470	0.00255	0.00161	mg/kg dry	0.0511	0.00161 U	92	68-123	0.4	20	
1,1-Dichloroethane	0.0484	0.00255	0.00135	mg/kg dry	0.0511	0.00135 U	95	74-121	5	20	
Vinyl Acetate	0.0471	0.0128	0.0123	mg/kg dry	0.128	0.0123 U	37	0-187	7	30	
2,2-Dichloropropane	0.0482	0.00255	0.00196	mg/kg dry	0.0511	0.00196 U	94	42-130	3	20	
cis-1,2-Dichloroethene	0.0484	0.00255	0.00163	mg/kg dry	0.0511	0.00163 U	95	76-121	6	20	
2-Butanone (MEK)	0.101	0.0128	0.00611	mg/kg dry	0.128	0.00611 U	79	22-151	0.6	20	
Bromochloromethane	0.0475	0.00255	0.000982	mg/kg dry	0.0511	0.000982 U	93	75-121	2	20	
Chloroform	0.0479	0.00255	0.000831	mg/kg dry	0.0511	0.000831 U	94	73-117	4	20	
1,1,1-Trichloroethane	0.0489	0.00255	0.00146	mg/kg dry	0.0511	0.00146 U	96	72-123	4	20	
Carbon Tetrachloride	0.0490	0.00255	0.00185	mg/kg dry	0.0511	0.00185 U	96	62-131	4	20	
1,1-Dichloropropene	0.0492	0.00255	0.00193	mg/kg dry	0.0511	0.00193 U	96	69-130	4	20	
Benzene	0.0491	0.00255	0.00158	mg/kg dry	0.0511	0.00158 U	96	70-123	4	21	
1,2-Dichloroethane	0.0475	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	93	69-119	4	20	
Trichloroethene (TCE)	0.0482	0.00255	0.00164	mg/kg dry	0.0511	0.00164 U	94	64-133	5	24	
1,2-Dichloropropane	0.0483	0.00255	0.00139	mg/kg dry	0.0511	0.00139 U	95	71-122	4	20	
Dibromomethane	0.0476	0.00255	0.000874	mg/kg dry	0.0511	0.000874 U	93	68-121	1	23	
Bromodichloromethane	0.0483	0.00255	0.000698	mg/kg dry	0.0511	0.000698 U	95	67-122	4	20	
2-Chloroethyl Vinyl Ether	0.108	0.0128	0.00455	mg/kg dry	0.128	0.00455 U	85	12-174	9	30	
cis-1,3-Dichloropropene	0.0478	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	94	56-130	2	20	
4-Methyl-2-Pentanone (MIBK)	0.112	0.0255	0.00621	mg/kg dry	0.128	0.00621 U	88	44-141	1	25	
2-Hexanone	0.108	0.0255	0.00706	mg/kg dry	0.128	0.00706 U	85	32-140	0.1	21	
Toluene	0.0486	0.00255	0.00154	mg/kg dry	0.0511	0.00154 U	95	64-126	6	21	
trans-1,3-Dichloropropene	0.0467	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	92	53-125	2	20	
1,1,2-Trichloroethane	0.0482	0.00255	0.00103	mg/kg dry	0.0511	0.00103 U	94	72-117	4	20	
Tetrachloroethene (PCE)	0.0496	0.0128	0.00106	mg/kg dry	0.0511	0.00106 U	97	28-183	6	20	
1,3-Dichloropropane	0.0477	0.00255	0.00102	mg/kg dry	0.0511	0.00102 U	93	72-117	3	20	
Dibromochloromethane	0.0484	0.0128	0.000657	mg/kg dry	0.0511	0.000657 U	95	57-130	3	20	
1,2-Dibromoethane (EDB)	0.0457	0.00255	0.00110	mg/kg dry	0.0511	0.00110 U	90	67-123	6	20	
Chlorobenzene	0.0487	0.00255	0.00123	mg/kg dry	0.0511	0.00123 U	95	64-124	5	21	
1,1,1,2-Tetrachloroethane	0.0488	0.00255	0.00104	mg/kg dry	0.0511	0.00104 U	96	59-132	5	20	
Ethylbenzene	0.0503	0.00255	0.00197	mg/kg dry	0.0511	0.00197 U	99	52-136	5	20	
m- & p-Xylenes	0.101	0.00638	0.00543	mg/kg dry	0.102	0.00543 U	99	51-137	5	20	
o-Xylene	0.0505	0.00255	0.00239	mg/kg dry	0.0511	0.00239 U	99	52-138	7	20	



NELAP Certificate No. E84880



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401112 - Prep Method: 5035 (low)

Matrix Spike Dup (B401112-MSD1)	Source: 1312115-01			Prepared: 17-Jan-14 22:07			Analyzed: 17-Jan-14 22:07				
Styrene	0.0506	0.00255	0.00199	mg/kg dry	0.0511	0.00199 U	99	42-143	5	20	
Bromoform	0.0456	0.00255	0.00129	mg/kg dry	0.0511	0.00129 U	89	42-130	3	20	
Isopropylbenzene (Cumene)	0.0511	0.00255	0.00243	mg/kg dry	0.0511	0.00243 U	100	40-149	5	20	
Bromobenzene	0.0488	0.00255	0.00136	mg/kg dry	0.0511	0.00136 U	96	50-136	3	20	
1,1,2,2-Tetrachloroethane	0.0442	0.00255	0.00128	mg/kg dry	0.0511	0.00128 U	87	46-142	3	31	
1,2,3-Trichloropropane	0.0450	0.00255	0.00209	mg/kg dry	0.0511	0.00209 U	88	54-136	6	20	
n-Propylbenzene	0.0500	0.00638	0.00233	mg/kg dry	0.0511	0.00233 U	98	35-161	4	20	
2-Chlorotoluene	0.0497	0.00255	0.00202	mg/kg dry	0.0511	0.00202 U	97	57-137	3	20	
4-Chlorotoluene	0.0500	0.00255	0.00211	mg/kg dry	0.0511	0.00211 U	98	53-141	4	20	
1,3,5-Trimethylbenzene	0.0503	0.00255	0.00225	mg/kg dry	0.0511	0.00225 U	98	36-156	5	20	
tert-Butyl Benzene	0.0503	0.00255	0.00236	mg/kg dry	0.0511	0.00236 U	98	41-149	3	20	
1,2,4-Trimethylbenzene	0.0503	0.00638	0.00337	mg/kg dry	0.0511	0.00337 U	99	30-161	4	20	
sec-Butyl Benzene	0.0507	0.00255	0.00231	mg/kg dry	0.0511	0.00231 U	99	33-153	5	20	
1,3-Dichlorobenzene	0.0482	0.00255	0.00171	mg/kg dry	0.0511	0.00171 U	94	47-135	3	20	
p-Isopropyltoluene	0.0493	0.00255	0.00208	mg/kg dry	0.0511	0.00208 U	97	32-147	4	20	
1,4-Dichlorobenzene	0.0472	0.00255	0.00160	mg/kg dry	0.0511	0.00160 U	93	46-131	4	20	
1,2-Dichlorobenzene	0.0488	0.00255	0.00179	mg/kg dry	0.0511	0.00179 U	96	44-135	3	20	
n-Butyl Benzene	0.0502	0.00638	0.00269	mg/kg dry	0.0511	0.00269 U	98	10-165	5	20	
1,2-Dibromo-3-Chloropropane	0.0434	0.00638	0.00139	mg/kg dry	0.0511	0.00139 U	85	27-145	2	28	
1,2,4-Trichlorobenzene	0.0467	0.00255	0.00251	mg/kg dry	0.0511	0.00251 U	92	0-170	3	20	
Naphthalene	0.0469	0.00511	0.00335	mg/kg dry	0.0511	0.00335 U	92	0-157	2	20	
Hexachlorobutadiene	0.0472	0.00383	0.00232	mg/kg dry	0.0511	0.00232 U	92	0-173	7	20	
1,2,3-Trichlorobenzene	0.0467	0.00255	0.000231	mg/kg dry	0.0511	0.000231 U	91	0-169	5	20	
Surrogate: Dibromofluoromethane	50.0			ug/kg	50.0		100	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.7			ug/kg	50.0		97	80-120			
Surrogate: Toluene-d8	50.7			ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	49.9			ug/kg	50.0		100	68-120			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1) Prepared: 18-Jan-14 08:19 Analyzed: 18-Jan-14 08:19

1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L
2-Hexanone	4.00 U	20.0	4.00	ug/L
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L
Acetone	5.00 U	10.0	5.00	ug/L
Benzene	0.450 U	1.00	0.450	ug/L
Bromobenzene	0.410 U	2.00	0.410	ug/L
Bromochloromethane	0.500 U	5.00	0.500	ug/L
Bromodichloromethane	0.540 U	0.600	0.540	ug/L
Bromoform	0.650 U	2.00	0.650	ug/L



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Bromomethane	2.00 U	5.00	2.00	ug/L							
Carbon Disulfide	0.800 U	2.00	0.800	ug/L							
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L							
Chlorobenzene	0.560 U	2.00	0.560	ug/L							
Chloroethane	1.17 U	2.00	1.17	ug/L							
Chloroform	1.00 U	2.00	1.00	ug/L							
Chloromethane	0.560 U	2.00	0.560	ug/L							
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L							
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L							
Dibromochloromethane	0.710 U	2.00	0.710	ug/L							
Dibromomethane	0.250 U	2.00	0.250	ug/L							
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L							
Ethylbenzene	0.500 U	2.00	0.500	ug/L							
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L							
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L							
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L							
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L							
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L							
Methylene Chloride	2.50 U	5.00	2.50	ug/L							
Naphthalene	1.36 U	5.00	1.36	ug/L							
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L							
n-Propylbenzene	0.630 U	2.00	0.630	ug/L							
o-Xylene	0.660 U	2.00	0.660	ug/L							
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L							
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L							
Styrene	0.640 U	2.00	0.640	ug/L							
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L							
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L							
Toluene	0.580 U	2.00	0.580	ug/L							
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L							
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L							
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L							
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L							



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	50.6			ug/L	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	51.6			ug/L	50.0		103	80-120			
Surrogate: Dibromofluoromethane	49.9			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
1,1,1,2-Tetrachloroethane	39.4	1.30	0.700	ug/L	40.0		98	72-124			
1,1,1-Trichloroethane	42.8	2.00	0.600	ug/L	40.0		107	76-122			
1,1,2,2-Tetrachloroethane	39.8	0.500	0.410	ug/L	40.0		100	71-112			
1,1,2-Trichloroethane	39.4	2.00	0.330	ug/L	40.0		99	79-110			
1,1-Dichloroethane	41.4	2.00	0.250	ug/L	40.0		104	80-112			
1,1-Dichloroethene	41.0	2.00	1.14	ug/L	40.0		103	74-122			
1,1-Dichloropropene	43.4	2.00	0.800	ug/L	40.0		108	83-116			
1,2,3-Trichlorobenzene	41.5	2.00	0.720	ug/L	40.0		104	76-116			
1,2,3-Trichloropropane	39.3	0.500	0.320	ug/L	40.0		98	71-115			
1,2,4-Trichlorobenzene	41.1	2.00	0.760	ug/L	40.0		103	73-118			
1,2,4-Trimethylbenzene	44.3	2.00	0.690	ug/L	40.0		111	80-119			
1,2-Dibromo-3-Chloropropane	38.8	2.00	1.05	ug/L	40.0		97	43-135			
1,2-Dibromoethane (EDB)	39.4	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	41.2	2.00	0.470	ug/L	40.0		103	80-110			
1,2-Dichloroethane	39.2	2.00	0.380	ug/L	40.0		98	73-116			
1,2-Dichloropropane	40.6	2.00	0.410	ug/L	40.0		101	78-113			
1,3,5-Trimethylbenzene	44.1	2.00	0.640	ug/L	40.0		110	80-118			
1,3-Dichlorobenzene	41.2	2.00	0.490	ug/L	40.0		103	80-110			
1,3-Dichloropropane	39.4	4.00	0.300	ug/L	40.0		98	80-109			
1,4-Dichlorobenzene	40.1	2.00	0.490	ug/L	40.0		100	78-107			
2,2-Dichloropropane	47.2	7.00	0.770	ug/L	40.0		118	51-138			
2-Butanone (MEK)	88.4	20.0	5.00	ug/L	100		88	57-129			
2-Chloroethyl Vinyl Ether	91.8	5.00	1.61	ug/L	100		92	45-145			
2-Chlorotoluene	42.1	2.00	0.450	ug/L	40.0		105	78-113			
2-Hexanone	102	20.0	4.00	ug/L	100		102	58-135			
4-Chlorotoluene	42.6	2.00	0.500	ug/L	40.0		107	79-115			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
4-Methyl-2-Pentanone (MIBK)	98.4	20.0	4.00	ug/L	100		98	65-135			
Acetone	104	10.0	5.00	ug/L	100		104	55-127			
Benzene	41.7	1.00	0.450	ug/L	40.0		104	82-113			
Bromobenzene	40.5	2.00	0.410	ug/L	40.0		101	80-114			
Bromochloromethane	39.5	5.00	0.500	ug/L	40.0		99	81-115			
Bromodichloromethane	40.7	0.600	0.540	ug/L	40.0		102	76-117			
Bromoform	38.6	2.00	0.650	ug/L	40.0		97	64-126			
Bromomethane	42.2	5.00	2.00	ug/L	40.0		105	40-138			
Carbon Disulfide	41.7	2.00	0.800	ug/L	40.0		104	78-116			
Carbon Tetrachloride	43.7	2.00	0.700	ug/L	40.0		109	74-129			
Chlorobenzene	40.7	2.00	0.560	ug/L	40.0		102	79-112			
Chloroethane	39.8	2.00	1.17	ug/L	40.0		100	70-116			
Chloroform	39.4	2.00	1.00	ug/L	40.0		99	72-115			
Chloromethane	41.0	2.00	0.560	ug/L	40.0		102	71-117			
cis-1,2-Dichloroethene	41.0	5.00	0.500	ug/L	40.0		102	83-112			
cis-1,3-Dichloropropene	41.6	0.500	0.260	ug/L	40.0		104	78-120			
Dibromochloromethane	40.6	2.00	0.710	ug/L	40.0		102	72-122			
Dibromomethane	39.1	2.00	0.250	ug/L	40.0		98	77-115			
Dichlorodifluoromethane	42.8	2.00	0.930	ug/L	40.0		107	63-129			
Ethylbenzene	43.4	2.00	0.500	ug/L	40.0		109	82-116			
Hexachlorobutadiene	39.1	3.00	2.00	ug/L	40.0		98	68-117			
Iodomethane (Methyl Iodide)	29.9	20.0	12.2	ug/L	40.0		75	30-127			
Isopropylbenzene (Cumene)	44.9	2.00	0.760	ug/L	40.0		112	80-122			
m- & p-Xylenes	87.7	4.00	1.23	ug/L	80.0		110	81-120			
Methyl tert-Butyl Ether (MTBE)	39.4	3.00	0.250	ug/L	40.0		98	71-115			
Methylene Chloride	35.4	5.00	2.50	ug/L	40.0		89	73-119			
Naphthalene	41.5	5.00	1.36	ug/L	40.0		104	67-117			
n-Butyl Benzene	44.9	2.00	1.10	ug/L	40.0		112	78-121			
n-Propylbenzene	44.1	2.00	0.630	ug/L	40.0		110	79-117			
o-Xylene	43.4	2.00	0.660	ug/L	40.0		109	80-119			
p-Isopropyltoluene	43.7	2.00	0.780	ug/L	40.0		109	78-117			
sec-Butyl Benzene	44.6	2.00	0.800	ug/L	40.0		112	79-119			
Styrene	43.5	2.00	0.640	ug/L	40.0		109	83-121			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
tert-Butyl Benzene	45.0	2.00	0.690	ug/L	40.0		112	76-119			
Tetrachloroethene (PCE)	38.2	2.00	1.50	ug/L	40.0		96	62-140			
Toluene	41.9	2.00	0.580	ug/L	40.0		105	80-112			
trans-1,2-Dichloroethene	41.1	2.00	0.500	ug/L	40.0		103	81-114			
trans-1,3-Dichloropropene	40.6	2.00	0.450	ug/L	40.0		102	70-119			
Trichloroethene (TCE)	41.8	2.00	0.740	ug/L	40.0		105	80-115			
Trichlorofluoromethane	42.7	2.00	1.10	ug/L	40.0		107	66-135			
Vinyl Acetate	106	2.00	1.63	ug/L	100		106	56-135			
Vinyl Chloride	42.4	1.00	0.970	ug/L	40.0		106	72-122			
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	49.6			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	50.3			ug/L	50.0		101	80-120			
Matrix Spike (B401113-MS1)					Source: 1312093-01		Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05		
1,1,1,2-Tetrachloroethane	363	13.0	7.00	ug/L	400	7.00 U	91	72-132			
1,1,1-Trichloroethane	386	20.0	6.00	ug/L	400	6.00 U	96	76-133			
1,1,2,2-Tetrachloroethane	371	5.00	4.10	ug/L	400	4.10 U	93	64-121			
1,1,2-Trichloroethane	365	20.0	3.30	ug/L	400	3.30 U	91	79-113			
1,1-Dichloroethane	377	20.0	2.50	ug/L	400	2.50 U	94	81-121			
1,1-Dichloroethene	369	20.0	11.4	ug/L	400	11.4 U	92	76-131			
1,1-Dichloropropene	384	20.0	8.00	ug/L	400	8.00 U	96	85-125			
1,2,3-Trichlorobenzene	375	20.0	7.20	ug/L	400	7.20 U	94	74-126			
1,2,3-Trichloropropane	356	5.00	3.20	ug/L	400	3.20 U	89	66-118			
1,2,4-Trichlorobenzene	374	20.0	7.60	ug/L	400	7.60 U	94	70-131			
1,2,4-Trimethylbenzene	401	20.0	6.90	ug/L	400	6.90 U	100	73-135			
1,2-Dibromo-3-Chloropropane	345	20.0	10.5	ug/L	400	10.5 U	86	36-143			
1,2-Dibromoethane (EDB)	364	20.0	2.90	ug/L	400	2.90 U	91	76-120			
1,2-Dichlorobenzene	375	20.0	4.70	ug/L	400	4.70 U	94	79-117			
1,2-Dichloroethane	360	20.0	3.80	ug/L	400	3.80 U	90	72-123			
1,2-Dichloropropane	370	20.0	4.10	ug/L	400	4.10 U	92	78-122			
1,3,5-Trimethylbenzene	400	20.0	6.40	ug/L	400	6.40 U	100	77-132			
1,3-Dichlorobenzene	381	20.0	4.90	ug/L	400	4.90 U	95	81-117			
1,3-Dichloropropane	363	40.0	3.00	ug/L	400	3.00 U	91	79-114			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01				Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05				
1,4-Dichlorobenzene	364	20.0	4.90	ug/L	400	4.90 U	91	78-113			
2,2-Dichloropropane	390	70.0	7.70	ug/L	400	7.70 U	97	44-138			
2-Butanone (MEK)	787	200	50.0	ug/L	1000	50.0 U	79	48-136			
2-Chloroethyl Vinyl Ether	806	50.0	16.1	ug/L	1000	16.1 U	81	34-152			
2-Chlorotoluene	386	20.0	4.50	ug/L	400	4.50 U	96	71-132			
2-Hexanone	902	200	40.0	ug/L	1000	40.0 U	90	52-144			
4-Chlorotoluene	388	20.0	5.00	ug/L	400	5.00 U	97	77-125			
4-Methyl-2-Pentanone (MIBK)	902	200	40.0	ug/L	1000	40.0 U	90	64-141			
Acetone	895	100	50.0	ug/L	1000	50.0 U	89	48-133			
Benzene	381	10.0	4.50	ug/L	400	4.50 U	95	70-135			
Bromobenzene	371	20.0	4.10	ug/L	400	4.10 U	93	82-119			
Bromochloromethane	365	50.0	5.00	ug/L	400	5.00 U	91	82-121			
Bromodichloromethane	377	6.00	5.40	ug/L	400	5.40 U	94	75-126			
Bromoform	355	20.0	6.50	ug/L	400	6.50 U	89	63-129			
Bromomethane	160	50.0	20.0	ug/L	400	20.0 U	40	26-152			
Carbon Disulfide	391	20.0	8.00	ug/L	400	8.00 U	98	68-140			
Carbon Tetrachloride	392	20.0	7.00	ug/L	400	7.00 U	98	72-144			
Chlorobenzene	377	20.0	5.60	ug/L	400	5.60 U	94	82-116			
Chloroethane	363	20.0	11.7	ug/L	400	11.7 U	91	74-123			
Chloroform	367	20.0	10.0	ug/L	400	10.0 U	92	74-121			
Chloromethane	302	20.0	5.60	ug/L	400	5.60 U	76	70-125			
cis-1,2-Dichloroethene	373	50.0	5.00	ug/L	400	5.00 U	93	84-121			
cis-1,3-Dichloropropene	344	5.00	2.60	ug/L	400	2.60 U	86	73-127			
Dibromochloromethane	376	20.0	7.10	ug/L	400	7.10 U	94	71-129			
Dibromomethane	366	20.0	2.50	ug/L	400	2.50 U	92	76-120			
Dichlorodifluoromethane	388	20.0	9.30	ug/L	400	9.30 U	97	65-139			
Ethylbenzene	395	20.0	5.00	ug/L	400	5.00 U	99	74-134			
Hexachlorobutadiene	365	30.0	20.0	ug/L	400	20.0 U	91	68-123			
Iodomethane (Methyl Iodide)	133	200	122	ug/L	400	122 U	33	21-145			I
Isopropylbenzene (Cumene)	404	20.0	7.60	ug/L	400	7.60 U	101	76-136			
m- & p-Xylenes	796	40.0	12.3	ug/L	800	12.3 U	99	77-131			
Methyl tert-Butyl Ether (MTBE)	358	30.0	2.50	ug/L	400	2.50 U	89	64-123			
Methylene Chloride	321	50.0	25.0	ug/L	400	25.0 U	80	73-124			



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Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01				Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05				
Naphthalene	381	50.0	13.6	ug/L	400	13.6 U	95	55-137			
n-Butyl Benzene	402	20.0	11.0	ug/L	400	11.0 U	101	68-139			
n-Propylbenzene	398	20.0	6.30	ug/L	400	6.30 U	100	69-135			
o-Xylene	391	20.0	6.60	ug/L	400	6.60 U	98	78-132			
p-Isopropyltoluene	393	20.0	7.80	ug/L	400	7.80 U	98	77-127			
sec-Butyl Benzene	403	20.0	8.00	ug/L	400	8.00 U	101	75-131			
Styrene	380	20.0	6.40	ug/L	400	6.40 U	95	80-134			
tert-Butyl Benzene	412	20.0	6.90	ug/L	400	6.90 U	103	78-132			
Tetrachloroethene (PCE)	328	20.0	15.0	ug/L	400	15.0 U	82	54-144			
Toluene	381	20.0	5.80	ug/L	400	5.80 U	95	82-120			
trans-1,2-Dichloroethene	375	20.0	5.00	ug/L	400	5.00 U	94	85-121			
trans-1,3-Dichloropropene	341	20.0	4.50	ug/L	400	4.50 U	85	62-126			
Trichloroethene (TCE)	377	20.0	7.40	ug/L	400	7.40 U	94	80-127			
Trichlorofluoromethane	387	20.0	11.0	ug/L	400	11.0 U	97	72-143			
Vinyl Acetate	987	20.0	16.3	ug/L	1000	16.3 U	99	46-145			
Vinyl Chloride	341	10.0	9.70	ug/L	400	9.70 U	85	75-131			

Surrogate: 1,2-Dichloroethane-d4	49.2			ug/L	50.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	50.1			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.8			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01				Prepared: 18-Jan-14 16:35		Analyzed: 18-Jan-14 16:35				
1,1,1,2-Tetrachloroethane	396	13.0	7.00	ug/L	400	7.00 U	99	72-132	9	20	
1,1,1-Trichloroethane	425	20.0	6.00	ug/L	400	6.00 U	106	76-133	10	20	
1,1,2,2-Tetrachloroethane	405	5.00	4.10	ug/L	400	4.10 U	101	64-121	9	20	
1,1,2-Trichloroethane	389	20.0	3.30	ug/L	400	3.30 U	97	79-113	6	20	
1,1-Dichloroethane	413	20.0	2.50	ug/L	400	2.50 U	103	81-121	9	20	
1,1-Dichloroethene	402	20.0	11.4	ug/L	400	11.4 U	101	76-131	9	20	
1,1-Dichloropropene	415	20.0	8.00	ug/L	400	8.00 U	104	85-125	8	20	
1,2,3-Trichlorobenzene	423	20.0	7.20	ug/L	400	7.20 U	106	74-126	12	20	
1,2,3-Trichloropropane	398	5.00	3.20	ug/L	400	3.20 U	100	66-118	11	20	
1,2,4-Trichlorobenzene	416	20.0	7.60	ug/L	400	7.60 U	104	70-131	11	20	
1,2,4-Trimethylbenzene	442	20.0	6.90	ug/L	400	6.90 U	110	73-135	10	20	
1,2-Dibromo-3-Chloropropane	388	20.0	10.5	ug/L	400	10.5 U	97	36-143	12	20	



NELAP Certificate No. E84880



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01				Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35			
1,2-Dibromoethane (EDB)	398	20.0	2.90	ug/L	400	2.90 U	99	76-120	9	20	
1,2-Dichlorobenzene	415	20.0	4.70	ug/L	400	4.70 U	104	79-117	10	20	
1,2-Dichloroethane	387	20.0	3.80	ug/L	400	3.80 U	97	72-123	7	20	
1,2-Dichloropropane	396	20.0	4.10	ug/L	400	4.10 U	99	78-122	7	20	
1,3,5-Trimethylbenzene	440	20.0	6.40	ug/L	400	6.40 U	110	77-132	10	20	
1,3-Dichlorobenzene	412	20.0	4.90	ug/L	400	4.90 U	103	81-117	8	20	
1,3-Dichloropropane	391	40.0	3.00	ug/L	400	3.00 U	98	79-114	8	20	
1,4-Dichlorobenzene	399	20.0	4.90	ug/L	400	4.90 U	100	78-113	9	20	
2,2-Dichloropropane	430	70.0	7.70	ug/L	400	7.70 U	107	44-138	10	20	
2-Butanone (MEK)	890	200	50.0	ug/L	1000	50.0 U	89	48-136	12	20	
2-Chloroethyl Vinyl Ether	839	50.0	16.1	ug/L	1000	16.1 U	84	34-152	4	30	
2-Chlorotoluene	426	20.0	4.50	ug/L	400	4.50 U	107	71-132	10	20	
2-Hexanone	1000	200	40.0	ug/L	1000	40.0 U	100	52-144	11	20	
4-Chlorotoluene	427	20.0	5.00	ug/L	400	5.00 U	107	77-125	9	20	
4-Methyl-2-Pentanone (MIBK)	1020	200	40.0	ug/L	1000	40.0 U	102	64-141	12	20	
Acetone	1020	100	50.0	ug/L	1000	50.0 U	102	48-133	13	20	
Benzene	417	10.0	4.50	ug/L	400	4.50 U	104	70-135	9	20	
Bromobenzene	410	20.0	4.10	ug/L	400	4.10 U	103	82-119	10	20	
Bromochloromethane	385	50.0	5.00	ug/L	400	5.00 U	96	82-121	5	20	
Bromodichloromethane	409	6.00	5.40	ug/L	400	5.40 U	102	75-126	8	20	
Bromoform	386	20.0	6.50	ug/L	400	6.50 U	96	63-129	8	20	
Bromomethane	213	50.0	20.0	ug/L	400	20.0 U	53	26-152	28	20	J2
Carbon Disulfide	431	20.0	8.00	ug/L	400	8.00 U	108	68-140	10	20	
Carbon Tetrachloride	430	20.0	7.00	ug/L	400	7.00 U	107	72-144	9	20	
Chlorobenzene	411	20.0	5.60	ug/L	400	5.60 U	103	82-116	9	20	
Chloroethane	393	20.0	11.7	ug/L	400	11.7 U	98	74-123	8	20	
Chloroform	399	20.0	10.0	ug/L	400	10.0 U	100	74-121	8	20	
Chloromethane	331	20.0	5.60	ug/L	400	5.60 U	83	70-125	9	20	
cis-1,2-Dichloroethene	406	50.0	5.00	ug/L	400	5.00 U	101	84-121	8	20	
cis-1,3-Dichloropropene	376	5.00	2.60	ug/L	400	2.60 U	94	73-127	9	20	
Dibromochloromethane	407	20.0	7.10	ug/L	400	7.10 U	102	71-129	8	20	
Dibromomethane	393	20.0	2.50	ug/L	400	2.50 U	98	76-120	7	20	
Dichlorodifluoromethane	422	20.0	9.30	ug/L	400	9.30 U	106	65-139	9	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
Ethylbenzene	430	20.0	5.00	ug/L	400	5.00 U	107	74-134	8	20	J2
Hexachlorobutadiene	402	30.0	20.0	ug/L	400	20.0 U	100	68-123	10	20	
Iodomethane (Methyl Iodide)	236	200	122	ug/L	400	122 U	59	21-145	56	30	
Isopropylbenzene (Cumene)	447	20.0	7.60	ug/L	400	7.60 U	112	76-136	10	20	
m- & p-Xylenes	871	40.0	12.3	ug/L	800	12.3 U	109	77-131	9	20	
Methyl tert-Butyl Ether (MTBE)	395	30.0	2.50	ug/L	400	2.50 U	99	64-123	10	20	
Methylene Chloride	353	50.0	25.0	ug/L	400	25.0 U	88	73-124	9	20	
Naphthalene	436	50.0	13.6	ug/L	400	13.6 U	109	55-137	14	20	
n-Butyl Benzene	438	20.0	11.0	ug/L	400	11.0 U	109	68-139	8	20	
n-Propylbenzene	436	20.0	6.30	ug/L	400	6.30 U	109	69-135	9	20	
o-Xylene	434	20.0	6.60	ug/L	400	6.60 U	108	78-132	10	20	
p-Isopropyltoluene	429	20.0	7.80	ug/L	400	7.80 U	107	77-127	9	20	
sec-Butyl Benzene	442	20.0	8.00	ug/L	400	8.00 U	111	75-131	9	20	
Styrene	415	20.0	6.40	ug/L	400	6.40 U	104	80-134	9	20	
tert-Butyl Benzene	453	20.0	6.90	ug/L	400	6.90 U	113	78-132	10	20	
Tetrachloroethene (PCE)	351	20.0	15.0	ug/L	400	15.0 U	88	54-144	7	20	
Toluene	413	20.0	5.80	ug/L	400	5.80 U	103	82-120	8	20	
trans-1,2-Dichloroethene	411	20.0	5.00	ug/L	400	5.00 U	103	85-121	9	20	
trans-1,3-Dichloropropene	369	20.0	4.50	ug/L	400	4.50 U	92	62-126	8	20	
Trichloroethene (TCE)	417	20.0	7.40	ug/L	400	7.40 U	104	80-127	10	20	
Trichlorofluoromethane	418	20.0	11.0	ug/L	400	11.0 U	105	72-143	8	20	
Vinyl Acetate	1100	20.0	16.3	ug/L	1000	16.3 U	110	46-145	11	20	
Vinyl Chloride	377	10.0	9.70	ug/L	400	9.70 U	94	75-131	10	20	
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	51.0			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD Limits	RPD RPD	Limit Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

Blank (B401079-BLK1) Prepared: 14-Jan-14 15:02 Analyzed: 15-Jan-14 16:00

1,2,4,5-Tetrachlorobenzene	0.0230 U	0.0500	0.0230	mg/kg wet
1,2,4-Trichlorobenzene	0.0217 U	0.0500	0.0217	mg/kg wet
1,2-Dichlorobenzene	0.0320 U	0.0500	0.0320	mg/kg wet
1,3-Dichlorobenzene	0.0600 U	0.100	0.0600	mg/kg wet
1,4-Dichlorobenzene	0.0521 U	0.100	0.0521	mg/kg wet
1-Methylnaphthalene	0.0225 U	0.0500	0.0225	mg/kg wet
2,4,5-Trichlorophenol	0.0556 U	0.100	0.0556	mg/kg wet
1-Chloronaphthalene	0.0240 U	0.0500	0.0240	mg/kg wet
2,4,6-Trichlorophenol	0.0736 U	0.100	0.0736	mg/kg wet
2,4-Dichlorophenol	0.0560 U	0.100	0.0560	mg/kg wet
1-Naphthylamine	0.0620 U	0.150	0.0620	mg/kg wet
2,4-Dimethylphenol	0.0534 U	0.200	0.0534	mg/kg wet
2,3,4,6-Tetrachlorophenol	0.0450 U	0.100	0.0450	mg/kg wet
2,4-Dinitrophenol	0.104 U	0.200	0.104	mg/kg wet
2,4-Dinitrotoluene	0.0122 U	0.0500	0.0122	mg/kg wet
2,6-Dichlorophenol	0.0397 U	0.0500	0.0397	mg/kg wet
2-Chloronaphthalene	0.0231 U	0.0500	0.0231	mg/kg wet
2-Chlorophenol	0.0711 U	0.100	0.0711	mg/kg wet
2,6-Dinitrotoluene	0.0130 U	0.0500	0.0130	mg/kg wet
2-Methylnaphthalene	0.0313 U	0.0500	0.0313	mg/kg wet
2-Methylphenol	0.0399 U	0.0500	0.0399	mg/kg wet
2-Nitroaniline	0.0370 U	0.0500	0.0370	mg/kg wet
2-Nitrophenol	0.0365 U	0.200	0.0365	mg/kg wet
3,3-Dichlorobenzidine	0.166 U	0.200	0.166	mg/kg wet
3/4-Methylphenol	0.0503 U	0.100	0.0503	mg/kg wet
3-Nitroaniline	0.0334 U	0.100	0.0334	mg/kg wet
4-Bromophenyl-Phenylether	0.0349 U	0.0500	0.0349	mg/kg wet
4-Chloro-3-Methylphenol	0.0528 U	0.100	0.0528	mg/kg wet
2-Naphthylamine	0.0310 U	0.0500	0.0310	mg/kg wet
4-Chloroaniline	0.0340 U	0.100	0.0340	mg/kg wet
4-Chlorophenyl-Phenylether	0.0218 U	0.0500	0.0218	mg/kg wet
4-Nitroaniline	0.0235 U	0.100	0.0235	mg/kg wet
4-Nitrophenol	0.117 U	0.200	0.117	mg/kg wet



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

Blank (B401079-BLK1) Prepared: 14-Jan-14 15:02 Analyzed: 15-Jan-14 16:00

Acenaphthene	0.0322 U	0.0500	0.0322	mg/kg wet
4,6-Dinitro-2-Methylphenol	0.0870 U	0.200	0.0870	mg/kg wet
Acenaphthylene	0.0107 U	0.0500	0.0107	mg/kg wet
Anthracene	0.0159 U	0.0500	0.0159	mg/kg wet
Benzo(a)anthracene	0.0156 U	0.0500	0.0156	mg/kg wet
Benzo(a)pyrene	0.0148 U	0.0500	0.0148	mg/kg wet
Benzo(b)fluoranthene	0.0186 U	0.0500	0.0186	mg/kg wet
4-Dimethylaminoazobenzene	0.0200 U	0.0500	0.0200	mg/kg wet
Benzo(g,h,i)perylene	0.0223 U	0.0500	0.0223	mg/kg wet
Benzo(k)fluoranthene	0.0261 U	0.0500	0.0261	mg/kg wet
Benzyl alcohol	0.0388 U	0.0500	0.0388	mg/kg wet
bis(2-Chloroethoxy)methane	0.0241 U	0.0500	0.0241	mg/kg wet
Bis(2-Chloroethyl)ether	0.0372 U	0.0500	0.0372	mg/kg wet
Bis(2-chloroisopropyl)ether	0.0520 U	0.100	0.0520	mg/kg wet
Bis(2-Ethylhexyl)phthalate	0.0149 U	0.0500	0.0149	mg/kg wet
Butylbenzylphthalate	0.0248 U	0.0500	0.0248	mg/kg wet
Aniline	0.0530 U	0.100	0.0530	mg/kg wet
Carbazole	0.0257 U	0.0500	0.0257	mg/kg wet
Chrysene	0.0197 U	0.0500	0.0197	mg/kg wet
Azobenzene	0.0200 U	0.0500	0.0200	mg/kg wet
Benzidine	0.172 U	0.200	0.172	mg/kg wet
Dibenzo(a,h)anthracene	0.0158 U	0.0500	0.0158	mg/kg wet
Dibenzofuran	0.0256 U	0.0500	0.0256	mg/kg wet
Diethylphthalate	0.0163 U	0.0500	0.0163	mg/kg wet
Dimethylphthalate	0.0335 U	0.0500	0.0335	mg/kg wet
Di-n-Butyl Phthalate	0.0205 U	0.0500	0.0205	mg/kg wet
Di-n-Octyl Phthalate	0.0195 U	0.0500	0.0195	mg/kg wet
Fluoranthene	0.0149 U	0.0500	0.0149	mg/kg wet
Fluorene	0.0214 U	0.0500	0.0214	mg/kg wet
Hexachlorobenzene	0.0387 U	0.0500	0.0387	mg/kg wet
Hexachlorobutadiene	0.0387 U	0.0500	0.0387	mg/kg wet
Hexachlorocyclopentadiene	0.0174 U	0.0500	0.0174	mg/kg wet
Hexachloroethane	0.0250 U	0.0500	0.0250	mg/kg wet



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

Blank (B401079-BLK1)				Prepared: 14-Jan-14 15:02			Analyzed: 15-Jan-14 16:00				
Indeno(1,2,3-cd)pyrene	0.0239 U	0.0500	0.0239	mg/kg wet							
Isophorone	0.0224 U	0.0500	0.0224	mg/kg wet							
Naphthalene	0.0212 U	0.0500	0.0212	mg/kg wet							
Nitrobenzene	0.0393 U	0.0500	0.0393	mg/kg wet							
N-Nitrosodi-n-butylamine	0.0222 U	0.0500	0.0222	mg/kg wet							
N-Nitroso-di-n-propylamine	0.0430 U	0.0500	0.0430	mg/kg wet							
N-Nitrosodiphenylamine	0.0317 U	0.0500	0.0317	mg/kg wet							
Pentachlorophenol	0.0912 U	0.200	0.0912	mg/kg wet							
Phenanthrene	0.0119 U	0.0500	0.0119	mg/kg wet							
Phenol	0.0541 U	0.100	0.0541	mg/kg wet							
Pyrene	0.0201 U	0.0500	0.0201	mg/kg wet							
N-Nitrosodiethylamine	0.0460 U	0.0500	0.0460	mg/kg wet							
N-Nitrosodimethylamine	0.0480 U	0.0500	0.0480	mg/kg wet							
N-Nitrosomethylethylamine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosomorpholine	0.0370 U	0.0500	0.0370	mg/kg wet							
N-Nitrosopiperidine	0.0350 U	0.0500	0.0350	mg/kg wet							
N-Nitrosopyrrolidine	0.0270 U	0.0500	0.0270	mg/kg wet							
o-Toluidine	0.0340 U	0.100	0.0340	mg/kg wet							
Pyridine	0.0660 U	0.200	0.0660	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	1.56			mg/kg wet	1.67		94	45-107			
Surrogate: 2-Fluorobiphenyl	0.517			mg/kg wet	0.833		62	50-100			
Surrogate: 2-Fluorophenol	1.02			mg/kg wet	1.67		61	36-100			
Surrogate: Nitrobenzene-d5	0.718			mg/kg wet	0.833		86	25-130			
Surrogate: Phenol-d5	1.17			mg/kg wet	1.67		70	34-109			
Surrogate: Terphenyl-d14	0.705			mg/kg wet	0.833		85	55-105			
LCS (B401079-BS1)				Prepared: 14-Jan-14 15:02			Analyzed: 15-Jan-14 16:36				
1,2,4-Trichlorobenzene	2.44	0.0500	0.0217	mg/kg wet	3.33		73	33-100			
1,4-Dichlorobenzene	2.14	0.100	0.0521	mg/kg wet	3.33		64	34-100			
1-Methylnaphthalene	0.191	0.0500	0.0225	mg/kg wet	0.333		57	39-100			
2,4-Dinitrotoluene	2.01	0.0500	0.0122	mg/kg wet	3.33		60	38-112			
2-Chlorophenol	2.94	0.100	0.0711	mg/kg wet	5.00		59	27-100			
2-Methylnaphthalene	0.208	0.0500	0.0313	mg/kg wet	0.333		62	41-100			
4-Chloro-3-Methylphenol	3.69	0.100	0.0528	mg/kg wet	5.00		74	30-100			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

LCS (B401079-BS1)					Prepared: 14-Jan-14 15:02		Analyzed: 15-Jan-14 16:36				
4-Nitrophenol	3.85	0.200	0.117	mg/kg wet	5.00		77	16-101			
Acenaphthene	2.13	0.0500	0.0322	mg/kg wet	3.67		58	28-100			
Acenaphthylene	0.214	0.0500	0.0107	mg/kg wet	0.333		64	41-100			
Anthracene	0.240	0.0500	0.0159	mg/kg wet	0.333		72	45-103			
Benzo(a)anthracene	0.230	0.0500	0.0156	mg/kg wet	0.333		69	51-101			
Benzo(a)pyrene	0.212	0.0500	0.0148	mg/kg wet	0.333		64	51-110			
Benzo(b)fluoranthene	0.206	0.0500	0.0186	mg/kg wet	0.333		62	41-106			
Benzo(g,h,i)perylene	0.200	0.0500	0.0223	mg/kg wet	0.333		60	45-106			
Benzo(k)fluoranthene	0.223	0.0500	0.0261	mg/kg wet	0.333		67	42-109			
Chrysene	0.255	0.0500	0.0197	mg/kg wet	0.333		77	53-110			
Dibenzo(a,h)anthracene	0.188	0.0500	0.0158	mg/kg wet	0.333		56	43-106			
Fluoranthene	0.200	0.0500	0.0149	mg/kg wet	0.333		60	43-104			
Fluorene	0.187	0.0500	0.0214	mg/kg wet	0.333		56	39-101			
Indeno(1,2,3-cd)pyrene	0.195	0.0500	0.0239	mg/kg wet	0.333		59	40-105			
Naphthalene	0.210	0.0500	0.0212	mg/kg wet	0.333		63	6-125			
N-Nitroso-di-n-propylamine	2.55	0.0500	0.0430	mg/kg wet	3.33		76	41-100			
Pentachlorophenol	3.08	0.200	0.0912	mg/kg wet	5.00		62	16-100			
Phenanthrene	0.242	0.0500	0.0119	mg/kg wet	0.333		73	44-103			
Phenol	3.06	0.100	0.0541	mg/kg wet	5.00		61	20-100			
Pyrene	2.79	0.0500	0.0201	mg/kg wet	3.67		76	48-114			
Surrogate: 2,4,6-Tribromophenol	1.54			mg/kg wet	1.67		92	45-107			
Surrogate: 2-Fluorobiphenyl	0.462			mg/kg wet	0.833		55	50-100			
Surrogate: 2-Fluorophenol	0.911			mg/kg wet	1.67		55	36-100			
Surrogate: Nitrobenzene-d5	0.670			mg/kg wet	0.833		80	25-130			
Surrogate: Phenol-d5	1.06			mg/kg wet	1.67		64	34-109			
Surrogate: Terphenyl-d14	0.645			mg/kg wet	0.833		77	55-105			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

Matrix Spike (B401079-MS1)	Source: 1401038-04			Prepared: 14-Jan-14 15:02			Analyzed: 15-Jan-14 17:11				
1,2,4-Trichlorobenzene	2.49	0.0564	0.0245	mg/kg dry	3.76	0.0245 U	66	38-100			
1,4-Dichlorobenzene	2.21	0.113	0.0588	mg/kg dry	3.76	0.0588 U	59	40-100			
1-Methylnaphthalene	0.214	0.0564	0.0254	mg/kg dry	0.376	0.0254 U	57	39-100			
2,4-Dinitrotoluene	1.91	0.0564	0.0138	mg/kg dry	3.76	0.0138 U	51	33-116			
2-Chlorophenol	2.93	0.113	0.0801	mg/kg dry	5.64	0.0801 U	52	30-100			
2-Methylnaphthalene	0.251	0.0564	0.0353	mg/kg dry	0.376	0.0353 U	67	40-100			
4-Chloro-3-Methylphenol	3.66	0.113	0.0595	mg/kg dry	5.64	0.0595 U	65	31-103			
4-Nitrophenol	3.52	0.226	0.131	mg/kg dry	5.64	0.131 U	62	13-114			
Acenaphthene	2.26	0.0564	0.0363	mg/kg dry	4.14	0.0363 U	55	29-100			
Acenaphthylene	0.253	0.0564	0.0120	mg/kg dry	0.376	0.0120 U	67	41-100			
Anthracene	0.271	0.0564	0.0179	mg/kg dry	0.376	0.0179 U	72	47-100			
Benzo(a)anthracene	0.293	0.0564	0.0176	mg/kg dry	0.376	0.0317	69	36-105			
Benzo(a)pyrene	0.279	0.0564	0.0167	mg/kg dry	0.376	0.0290	67	38-123			
Benzo(b)fluoranthene	0.271	0.0564	0.0210	mg/kg dry	0.376	0.0423	61	32-114			
Benzo(g,h,i)perylene	0.272	0.0564	0.0252	mg/kg dry	0.376	0.0295	64	41-107			
Benzo(k)fluoranthene	0.240	0.0564	0.0294	mg/kg dry	0.376	0.0294 U	64	32-117			
Chrysene	0.319	0.0564	0.0222	mg/kg dry	0.376	0.0365	75	41-121			
Dibenzo(a,h)anthracene	0.244	0.0564	0.0179	mg/kg dry	0.376	0.0179 U	65	44-102			
Fluoranthene	0.270	0.0564	0.0168	mg/kg dry	0.376	0.0326	63	28-119			
Fluorene	0.209	0.0564	0.0242	mg/kg dry	0.376	0.0242 U	56	42-100			
Indeno(1,2,3-cd)pyrene	0.258	0.0564	0.0269	mg/kg dry	0.376	0.0269 U	69	25-142			
Naphthalene	0.244	0.0564	0.0239	mg/kg dry	0.376	0.0239 U	65	19-109			
N-Nitroso-di-n-propylamine	2.47	0.0564	0.0484	mg/kg dry	3.76	0.0484 U	66	39-101			
Pentachlorophenol	3.85	0.226	0.103	mg/kg dry	5.64	0.103 U	68	24-107			
Phenanthrene	0.308	0.0564	0.0134	mg/kg dry	0.376	0.0150	78	40-105			
Phenol	3.12	0.113	0.0610	mg/kg dry	5.64	0.0610 U	55	26-100			
Pyrene	2.85	0.0564	0.0226	mg/kg dry	4.14	0.0454	68	35-129			
Surrogate: 2,4,6-Tribromophenol	1.86			mg/kg dry	1.88		99	45-107			
Surrogate: 2-Fluorobiphenyl	0.563			mg/kg dry	0.940		60	50-100			
Surrogate: 2-Fluorophenol	1.04			mg/kg dry	1.88		55	36-100			
Surrogate: Nitrobenzene-d5	0.790			mg/kg dry	0.940		84	25-130			
Surrogate: Phenol-d5	1.20			mg/kg dry	1.88		64	34-109			
Surrogate: Terphenyl-d14	0.686			mg/kg dry	0.940		73	55-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401079 - Prep Method: 3550B

Matrix Spike Dup (B401079-MSD1)	Source: 1401038-04			Prepared: 14-Jan-14 15:02			Analyzed: 15-Jan-14 17:47				
1,2,4-Trichlorobenzene	2.59	0.0564	0.0245	mg/kg dry	3.76	0.0245 U	69	38-100	4	25	
1,4-Dichlorobenzene	2.34	0.113	0.0588	mg/kg dry	3.76	0.0588 U	62	40-100	6	25	
1-Methylnaphthalene	0.234	0.0564	0.0254	mg/kg dry	0.376	0.0254 U	62	39-100	9	25	
2,4-Dinitrotoluene	1.96	0.0564	0.0138	mg/kg dry	3.76	0.0138 U	52	33-116	2	25	
2-Chlorophenol	3.26	0.113	0.0801	mg/kg dry	5.64	0.0801 U	58	30-100	10	25	
2-Methylnaphthalene	0.259	0.0564	0.0353	mg/kg dry	0.376	0.0353 U	69	40-100	3	25	
4-Chloro-3-Methylphenol	3.88	0.113	0.0595	mg/kg dry	5.64	0.0595 U	69	31-103	6	25	
4-Nitrophenol	3.73	0.226	0.131	mg/kg dry	5.64	0.131 U	66	13-114	6	25	
Acenaphthene	2.41	0.0564	0.0363	mg/kg dry	4.14	0.0363 U	58	29-100	7	25	
Acenaphthylene	0.269	0.0564	0.0120	mg/kg dry	0.376	0.0120 U	72	41-100	6	25	
Anthracene	0.300	0.0564	0.0179	mg/kg dry	0.376	0.0179 U	80	47-100	10	25	
Benzo(a)anthracene	0.296	0.0564	0.0176	mg/kg dry	0.376	0.0317	70	36-105	1	25	
Benzo(a)pyrene	0.273	0.0564	0.0167	mg/kg dry	0.376	0.0290	65	38-123	2	25	
Benzo(b)fluoranthene	0.286	0.0564	0.0210	mg/kg dry	0.376	0.0423	65	32-114	5	25	
Benzo(g,h,i)perylene	0.266	0.0564	0.0252	mg/kg dry	0.376	0.0295	63	41-107	2	25	
Benzo(k)fluoranthene	0.251	0.0564	0.0294	mg/kg dry	0.376	0.0294 U	67	32-117	4	25	
Chrysene	0.307	0.0564	0.0222	mg/kg dry	0.376	0.0365	72	41-121	4	25	
Dibenzo(a,h)anthracene	0.251	0.0564	0.0179	mg/kg dry	0.376	0.0179 U	67	44-102	3	25	
Fluoranthene	0.276	0.0564	0.0168	mg/kg dry	0.376	0.0326	65	28-119	2	25	
Fluorene	0.223	0.0564	0.0242	mg/kg dry	0.376	0.0242 U	59	42-100	6	25	
Indeno(1,2,3-cd)pyrene	0.277	0.0564	0.0269	mg/kg dry	0.376	0.0269 U	74	25-142	7	25	
Naphthalene	0.257	0.0564	0.0239	mg/kg dry	0.376	0.0239 U	68	19-109	5	25	
N-Nitroso-di-n-propylamine	2.68	0.0564	0.0484	mg/kg dry	3.76	0.0484 U	71	39-101	8	25	
Pentachlorophenol	3.99	0.226	0.103	mg/kg dry	5.64	0.103 U	71	24-107	4	25	
Phenanthrene	0.315	0.0564	0.0134	mg/kg dry	0.376	0.0150	80	40-105	2	25	
Phenol	3.37	0.113	0.0610	mg/kg dry	5.64	0.0610 U	60	26-100	8	25	
Pyrene	2.97	0.0564	0.0226	mg/kg dry	4.14	0.0454	71	35-129	4	25	
Surrogate: 2,4,6-Tribromophenol	1.99			mg/kg dry	1.88		106	45-107			
Surrogate: 2-Fluorobiphenyl	0.587			mg/kg dry	0.940		63	50-100			
Surrogate: 2-Fluorophenol	1.16			mg/kg dry	1.88		62	36-100			
Surrogate: Nitrobenzene-d5	0.865			mg/kg dry	0.940		92	25-130			
Surrogate: Phenol-d5	1.34			mg/kg dry	1.88		71	34-109			
Surrogate: Terphenyl-d14	0.758			mg/kg dry	0.940		81	55-105			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L							
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L							
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L							
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L							
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L							
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L							
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L							
1-Naphthylamine	5.03 U	10.0	5.03	ug/L							
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L							
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L							
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L							
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L							
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L							
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L							
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L							
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L							
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L							
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L							
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L							
2-Chlorophenol	1.47 U	5.00	1.47	ug/L							
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L							
2-Methylphenol	0.534 U	5.00	0.534	ug/L							
2-Naphthylamine	2.37 U	10.0	2.37	ug/L							
2-Nitroaniline	0.892 U	20.0	0.892	ug/L							
2-Nitrophenol	1.73 U	20.0	1.73	ug/L							
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L							
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L							
3-Nitroaniline	1.26 U	5.00	1.26	ug/L							
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L							
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L							
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L							
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L							
4-Chloroaniline	2.88 U	5.00	2.88	ug/L							



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Project Number: 150929
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Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L							
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L							
4-Nitroaniline	1.20 U	5.00	1.20	ug/L							
4-Nitrophenol	0.717 U	20.0	0.717	ug/L							
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L							
Acenaphthene	0.0640 U	1.00	0.0640	ug/L							
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L							
Aniline	3.70 U	4.00	3.70	ug/L							
Anthracene	0.0670 U	0.300	0.0670	ug/L							
Azobenzene	0.785 U	1.00	0.785	ug/L							
Benzidine	5.70 U	50.0	5.70	ug/L							
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L							
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L							
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L							
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L							
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L							
Benzyl alcohol	0.386 U	5.00	0.386	ug/L							
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L							
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L							
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L							
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L							
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L							
Carbazole	0.521 U	5.00	0.521	ug/L							
Chrysene	0.135 U	0.200	0.135	ug/L							
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L							
Dibenzofuran	0.716 U	5.00	0.716	ug/L							
Diethylphthalate	0.795 U	5.00	0.795	ug/L							
Dimethylphthalate	0.617 U	5.00	0.617	ug/L							
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L							
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L							
Fluoranthene	0.0910 U	0.300	0.0910	ug/L							
Fluorene	0.0660 U	1.00	0.0660	ug/L							
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L							



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EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L						
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L						
Hexachloroethane	1.53 U	5.00	1.53	ug/L						
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L						
Isophorone	1.00 U	5.00	1.00	ug/L						
Naphthalene	0.0640 U	1.00	0.0640	ug/L						
Nitrobenzene	0.746 U	3.50	0.746	ug/L						
o-Toluidine	3.32 U	5.00	3.32	ug/L						
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L						
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L						
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L						
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L						
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L						
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L						
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L						
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L						
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L						
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L						
Pentachlorophenol	1.72 U	20.0	1.72	ug/L						
Phenanthrene	0.0780 U	0.200	0.0780	ug/L						
Phenol	0.796 U	6.50	0.796	ug/L						
Pyrene	0.0930 U	0.300	0.0930	ug/L						
Pyridine	0.689 U	5.00	0.689	ug/L						
Surrogate: 2,4,6-Tribromophenol	30.9			ug/L	50.0		62	15-122		
Surrogate: 2-Fluorobiphenyl	15.6			ug/L	25.0		63	49-100		
Surrogate: 2-Fluorophenol	11.9			ug/L	50.0		24	1-100		
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106		
Surrogate: Phenol-d5	7.93			ug/L	50.0		16	2-100		
Surrogate: Terphenyl-d14	19.9			ug/L	25.0		80	56-108		



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24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

LCS (B401120-BS1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:47	
1,2,4-Trichlorobenzene	60.5	5.00	1.09	ug/L	100	60	20-109	
1,4-Dichlorobenzene	57.2	5.00	1.11	ug/L	100	57	19-101	
1-Methylnaphthalene	6.34	1.00	0.0530	ug/L	10.0	63	30-102	
2,4-Dinitrotoluene	61.2	5.00	0.915	ug/L	100	61	47-109	
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	47	19-100	
2-Methylnaphthalene	7.17	1.00	0.0610	ug/L	10.0	72	28-106	
4-Chloro-3-Methylphenol	83.7	5.00	1.58	ug/L	150	56	25-103	
4-Nitrophenol	16.3	20.0	0.717	ug/L	150	11	9-100	
Acenaphthene	71.8	1.00	0.0640	ug/L	110	65	30-100	
Acenaphthylene	7.22	1.00	0.0590	ug/L	10.0	72	32-103	
Anthracene	6.97	0.300	0.0670	ug/L	10.0	70	38-116	
Benzo(a)anthracene	6.98	0.200	0.105	ug/L	10.0	70	37-110	
Benzo(a)pyrene	6.39	0.100	0.0790	ug/L	10.0	64	44-119	
Benzo(b)fluoranthene	5.58	0.100	0.0820	ug/L	10.0	56	34-115	
Benzo(g,h,i)perylene	5.79	0.200	0.0610	ug/L	10.0	58	43-117	
Benzo(k)fluoranthene	7.00	0.100	0.0770	ug/L	10.0	70	43-118	
Chrysene	8.05	0.200	0.135	ug/L	10.0	80	44-125	
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	61	40-116	
Fluoranthene	6.79	0.300	0.0910	ug/L	10.0	68	39-114	
Fluorene	6.68	1.00	0.0660	ug/L	10.0	67	39-104	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	60	50-103	
Naphthalene	6.80	1.00	0.0640	ug/L	10.0	68	9-135	
N-Nitroso-di-n-propylamine	66.6	5.00	0.964	ug/L	100	67	24-117	
Pentachlorophenol	89.8	20.0	1.72	ug/L	150	60	39-103	
Phenanthrene	7.09	0.200	0.0780	ug/L	10.0	71	42-113	
Phenol	21.1	6.50	0.796	ug/L	150	14	4-100	
Pyrene	81.0	0.300	0.0930	ug/L	110	74	38-133	
Surrogate: 2,4,6-Tribromophenol	29.5			ug/L	50.0	59	15-122	
Surrogate: 2-Fluorobiphenyl	15.1			ug/L	25.0	60	49-100	
Surrogate: 2-Fluorophenol	10.6			ug/L	50.0	21	1-100	
Surrogate: Nitrobenzene-d5	13.8			ug/L	25.0	55	47-106	
Surrogate: Phenol-d5	6.64			ug/L	50.0	13	2-100	
Surrogate: Terphenyl-d14	18.2			ug/L	25.0	73	56-108	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike (B401120-MS1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:22				
1,2,4-Trichlorobenzene	63.8	5.00	1.09	ug/L	100	1.09 U	64	46-92			
1,4-Dichlorobenzene	61.7	5.00	1.11	ug/L	100	1.11 U	62	37-100			
1-Methylnaphthalene	6.89	1.00	0.0530	ug/L	10.0	0.0530 U	69	54-100			
2,4-Dinitrotoluene	63.7	5.00	0.915	ug/L	100	0.915 U	64	66-100			J2
2-Chlorophenol	71.5	5.00	1.47	ug/L	150	1.47 U	48	33-100			
2-Methylnaphthalene	7.35	1.00	0.0610	ug/L	10.0	0.0610 U	74	51-100			
4-Chloro-3-Methylphenol	88.1	5.00	1.58	ug/L	150	1.58 U	59	51-100			
4-Nitrophenol	7.41	20.0	0.717	ug/L	150	0.717 U	5	13-100			I, J2
Acenaphthene	75.6	1.00	0.0640	ug/L	110	0.0640 U	69	62-100			
Acenaphthylene	7.82	1.00	0.0590	ug/L	10.0	0.0590 U	78	57-100			
Anthracene	7.29	0.300	0.0670	ug/L	10.0	0.0670 U	73	64-100			
Benzo(a)anthracene	7.09	0.200	0.105	ug/L	10.0	0.105 U	71	65-100			
Benzo(a)pyrene	6.34	0.100	0.0790	ug/L	10.0	0.0790 U	63	72-100			J2
Benzo(b)fluoranthene	5.96	0.100	0.0820	ug/L	10.0	0.0820 U	60	63-100			J2
Benzo(g,h,i)perylene	6.14	0.200	0.0610	ug/L	10.0	0.0610 U	61	64-102			J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113			
Chrysene	8.13	0.200	0.135	ug/L	10.0	0.135 U	81	67-100			
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	0.0680 U	61	64-100			J2
Fluoranthene	6.94	0.300	0.0910	ug/L	10.0	0.0910 U	69	68-100			
Fluorene	7.16	1.00	0.0660	ug/L	10.0	0.0660 U	72	62-100			
Indeno(1,2,3-cd)pyrene	5.88	0.200	0.0130	ug/L	10.0	0.0130 U	59	52-100			
Naphthalene	7.25	1.00	0.0640	ug/L	10.0	0.0640 U	72	24-100			
N-Nitroso-di-n-propylamine	68.1	5.00	0.964	ug/L	100	0.964 U	68	50-100			
Pentachlorophenol	57.0	20.0	1.72	ug/L	150	1.72 U	38	64-100			J2
Phenanthrene	7.44	0.200	0.0780	ug/L	10.0	0.0780 U	74	68-100			
Phenol	24.9	6.50	0.796	ug/L	150	0.796 U	17	7-100			
Pyrene	83.3	0.300	0.0930	ug/L	110	0.0930 U	76	68-100			
Surrogate: 2,4,6-Tribromophenol	28.1			ug/L	50.0		56	15-122			
Surrogate: 2-Fluorobiphenyl	17.1			ug/L	25.0		69	49-100			
Surrogate: 2-Fluorophenol	11.7			ug/L	50.0		23	1-100			
Surrogate: Nitrobenzene-d5	15.4			ug/L	25.0		62	47-106			
Surrogate: Phenol-d5	8.09			ug/L	50.0		16	2-100			
Surrogate: Terphenyl-d14	19.5			ug/L	25.0		78	56-108			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike Dup (B401120-MSD1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:58				
1,2,4-Trichlorobenzene	63.3	5.00	1.09	ug/L	100	1.09 U	63	46-92	0.8	25	
1,4-Dichlorobenzene	61.8	5.00	1.11	ug/L	100	1.11 U	62	37-100	0.2	25	
1-Methylnaphthalene	6.52	1.00	0.0530	ug/L	10.0	0.0530 U	65	54-100	6	25	
2,4-Dinitrotoluene	63.4	5.00	0.915	ug/L	100	0.915 U	63	66-100	0.4	25	J2
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	1.47 U	47	33-100	1	25	
2-Methylnaphthalene	6.94	1.00	0.0610	ug/L	10.0	0.0610 U	69	51-100	6	25	
4-Chloro-3-Methylphenol	85.8	5.00	1.58	ug/L	150	1.58 U	57	51-100	3	25	
4-Nitrophenol	8.00	20.0	0.717	ug/L	150	0.717 U	5	13-100	8	25	I, J2
Acenaphthene	75.4	1.00	0.0640	ug/L	110	0.0640 U	68	62-100	0.3	25	
Acenaphthylene	7.29	1.00	0.0590	ug/L	10.0	0.0590 U	73	57-100	7	25	
Anthracene	6.86	0.300	0.0670	ug/L	10.0	0.0670 U	69	64-100	6	25	
Benzo(a)anthracene	7.00	0.200	0.105	ug/L	10.0	0.105 U	70	65-100	1	25	
Benzo(a)pyrene	5.99	0.100	0.0790	ug/L	10.0	0.0790 U	60	72-100	6	25	J2
Benzo(b)fluoranthene	5.79	0.100	0.0820	ug/L	10.0	0.0820 U	58	63-100	3	25	J2
Benzo(g,h,i)perylene	6.03	0.200	0.0610	ug/L	10.0	0.0610 U	60	64-102	2	25	J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113	0	25	
Chrysene	7.71	0.200	0.135	ug/L	10.0	0.135 U	77	67-100	5	25	
Dibenzo(a,h)anthracene	5.94	0.200	0.0680	ug/L	10.0	0.0680 U	59	64-100	2	25	J2
Fluoranthene	6.77	0.300	0.0910	ug/L	10.0	0.0910 U	68	68-100	2	25	
Fluorene	6.53	1.00	0.0660	ug/L	10.0	0.0660 U	65	62-100	9	25	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	0.0130 U	60	52-100	2	25	
Naphthalene	6.73	1.00	0.0640	ug/L	10.0	0.0640 U	67	24-100	7	25	
N-Nitroso-di-n-propylamine	68.6	5.00	0.964	ug/L	100	0.964 U	69	50-100	0.8	25	
Pentachlorophenol	60.2	20.0	1.72	ug/L	150	1.72 U	40	64-100	6	25	J2
Phenanthrene	7.33	0.200	0.0780	ug/L	10.0	0.0780 U	73	68-100	1	25	
Phenol	24.8	6.50	0.796	ug/L	150	0.796 U	17	7-100	0.6	25	
Pyrene	80.9	0.300	0.0930	ug/L	110	0.0930 U	74	68-100	3	25	
Surrogate: 2,4,6-Tribromophenol	28.5			ug/L	50.0		57	15-122			
Surrogate: 2-Fluorobiphenyl	15.8			ug/L	25.0		63	49-100			
Surrogate: 2-Fluorophenol	11.2			ug/L	50.0		22	1-100			
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106			
Surrogate: Phenol-d5	7.66			ug/L	50.0		15	2-100			
Surrogate: Terphenyl-d14	18.9			ug/L	25.0		75	56-108			



NELAP Certificate No. E84880



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Blank (B401117-BLK1)				Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 09:51				
alpha-BHC	0.000690 U	0.00100	0.000690	mg/kg wet							
beta-BHC	0.000650 U	0.00100	0.000650	mg/kg wet							
gamma-BHC	0.000880 U	0.00100	0.000880	mg/kg wet							
delta-BHC	0.000660 U	0.00100	0.000660	mg/kg wet							
Heptachlor	0.000760 U	0.00100	0.000760	mg/kg wet							
Aldrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Heptachlor Epoxide	0.000580 U	0.00100	0.000580	mg/kg wet							
gamma-Chlordane	0.000510 U	0.00100	0.000510	mg/kg wet							
Endosulfan I	0.000510 U	0.00100	0.000510	mg/kg wet							
alpha-Chlordane	0.000490 U	0.00100	0.000490	mg/kg wet							
Dieldrin	0.000530 U	0.00100	0.000530	mg/kg wet							
4,4-DDE	0.000650 U	0.00100	0.000650	mg/kg wet							
Endrin	0.000550 U	0.00100	0.000550	mg/kg wet							
Endosulfan II	0.000510 U	0.00100	0.000510	mg/kg wet							
4,4-DDD	0.000660 U	0.00100	0.000660	mg/kg wet							
Endrin Aldehyde	0.000610 U	0.00100	0.000610	mg/kg wet							
Endosulfan Sulfate	0.000580 U	0.00100	0.000580	mg/kg wet							
4,4-DDT	0.000580 U	0.00100	0.000580	mg/kg wet							
Endrin Ketone	0.000680 U	0.00100	0.000680	mg/kg wet							
Methoxychlor	0.000830 U	0.00100	0.000830	mg/kg wet							
Chlordane	0.00540 U	0.0500	0.00540	mg/kg wet							
Toxaphene	0.0180 U	0.0500	0.0180	mg/kg wet							

Surrogate: TCMX	0.00674			mg/kg wet	0.00833		81	47-122
Surrogate: Decachlorobiphenyl	0.00981			mg/kg wet	0.00833		118	23-150

LCS (B401117-BS1)				Prepared: 22-Jan-14 07:30		Analyzed: 22-Jan-14 10:24	
alpha-BHC	0.0173	0.00100	0.000690	mg/kg wet	0.0167	104	30-115
beta-BHC	0.0165	0.00100	0.000650	mg/kg wet	0.0167	99	39-141
gamma-BHC	0.0174	0.00100	0.000880	mg/kg wet	0.0167	104	52-109
delta-BHC	0.0200	0.00100	0.000660	mg/kg wet	0.0167	120	47-123
Heptachlor	0.0164	0.00100	0.000760	mg/kg wet	0.0167	98	45-121
Aldrin	0.0163	0.00100	0.000550	mg/kg wet	0.0167	98	37-114
Heptachlor Epoxide	0.0160	0.00100	0.000580	mg/kg wet	0.0167	96	44-122
gamma-Chlordane	0.0157	0.00100	0.000510	mg/kg wet	0.0167	94	41-122



NELAP Certificate No. E84880



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

LCS (B401117-BS1)

Prepared: 22-Jan-14 07:30

Analyzed: 22-Jan-14 10:24

Endosulfan I	0.0163	0.00100	0.000510	mg/kg wet	0.0167		98	43-123			
alpha-Chlordane	0.0155	0.00100	0.000490	mg/kg wet	0.0167		93	40-122			
Dieldrin	0.0185	0.00100	0.000530	mg/kg wet	0.0167		111	45-127			
4,4-DDE	0.0205	0.00100	0.000650	mg/kg wet	0.0167		123	46-123			
Endrin	0.0190	0.00100	0.000550	mg/kg wet	0.0167		114	34-154			
Endosulfan II	0.0166	0.00100	0.000510	mg/kg wet	0.0167		100	41-150			
4,4-DDD	0.0202	0.00100	0.000660	mg/kg wet	0.0167		121	48-141			
Endrin Aldehyde	0.0192	0.00100	0.000610	mg/kg wet	0.0167		115	39-143			
Endosulfan Sulfate	0.0202	0.00100	0.000580	mg/kg wet	0.0167		121	46-147			
4,4-DDT	0.0142	0.00100	0.000580	mg/kg wet	0.0167		85	44-154			
Endrin Ketone	0.0194	0.00100	0.000680	mg/kg wet	0.0167		116	50-154			
Methoxychlor	0.0271	0.00100	0.000830	mg/kg wet	0.0167		163	44-171			

Surrogate: TCMX	0.00596			mg/kg wet	0.00833		72	47-122			
Surrogate: Decachlorobiphenyl	0.00911			mg/kg wet	0.00833		109	23-150			

Matrix Spike (B401117-MS1)

Source: 1312116-02

Prepared: 22-Jan-14 07:30

Analyzed: 22-Jan-14 10:58

alpha-BHC	0.0231	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	116	47-126			
beta-BHC	0.0221	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	111	56-149			
gamma-BHC	0.0238	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	119	56-131			
delta-BHC	0.0261	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	131	55-139			
Heptachlor	0.0216	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	108	57-136			
Aldrin	0.0220	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	111	55-116			
Heptachlor Epoxide	0.0215	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	108	56-132			
gamma-Chlordane	0.0207	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	104	53-128			
Endosulfan I	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	54-128			
alpha-Chlordane	0.0213	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	107	56-123			
Dieldrin	0.0247	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	124	56-134			
4,4-DDE	0.0245	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	123	48-131			
Endrin	0.0245	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	123	30-202			
Endosulfan II	0.0223	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	112	50-156			
4,4-DDD	0.0238	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	120	56-151			
Endrin Aldehyde	0.0259	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	130	58-134			
Endosulfan Sulfate	0.0273	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	137	37-177			
4,4-DDT	0.0183	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	92	5-212			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401117 - Prep Method: 3550B

Matrix Spike (B401117-MS1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 10:58			
Endrin Ketone	0.0258	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	130	55-166			
Methoxychlor	0.0364	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	183	49-191			
Surrogate: TCMX	0.00705			mg/kg dry	0.00996		71	47-122			
Surrogate: Decachlorobiphenyl	0.0118			mg/kg dry	0.00996		118	23-150			
Matrix Spike Dup (B401117-MSD1)		Source: 1312116-02			Prepared: 22-Jan-14 07:30			Analyzed: 22-Jan-14 11:32			
alpha-BHC	0.0250	0.00119	0.000824	mg/kg dry	0.0199	0.000824 U	126	47-126	8	25	
beta-BHC	0.0239	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	120	56-149	8	25	
gamma-BHC	0.0250	0.00119	0.00105	mg/kg dry	0.0199	0.00105 U	125	56-131	5	25	
delta-BHC	0.0183	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	92	55-139	35	25	J2
Heptachlor	0.0240	0.00119	0.000908	mg/kg dry	0.0199	0.000908 U	121	57-136	11	25	
Aldrin	0.0232	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	117	55-116	5	25	J2
Heptachlor Epoxide	0.0236	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	119	56-132	9	25	
gamma-Chlordane	0.0227	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	114	53-128	9	25	
Endosulfan I	0.0240	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	121	54-128	8	25	
alpha-Chlordane	0.0231	0.00119	0.000585	mg/kg dry	0.0199	0.000585 U	116	56-123	8	25	
Dieldrin	0.0270	0.00119	0.000633	mg/kg dry	0.0199	0.000633 U	136	56-134	9	25	J2
4,4-DDE	0.0261	0.00119	0.000777	mg/kg dry	0.0199	0.000777 U	131	48-131	6	25	
Endrin	0.0270	0.00119	0.000657	mg/kg dry	0.0199	0.000657 U	135	30-202	9	25	
Endosulfan II	0.0238	0.00119	0.000609	mg/kg dry	0.0199	0.000609 U	120	50-156	7	25	
4,4-DDD	0.0274	0.00119	0.000789	mg/kg dry	0.0199	0.000789 U	137	56-151	14	25	
Endrin Aldehyde	0.0239	0.00119	0.000729	mg/kg dry	0.0199	0.000729 U	120	58-134	8	25	
Endosulfan Sulfate	0.0283	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	142	37-177	4	25	
4,4-DDT	0.0192	0.00119	0.000693	mg/kg dry	0.0199	0.000693 U	96	5-212	5	25	
Endrin Ketone	0.0269	0.00119	0.000812	mg/kg dry	0.0199	0.000812 U	135	55-166	4	25	
Methoxychlor	0.0379	0.00119	0.000992	mg/kg dry	0.0199	0.000992 U	190	49-191	4	25	
Surrogate: TCMX	0.00768			mg/kg dry	0.00996		77	47-122			
Surrogate: Decachlorobiphenyl	0.0112			mg/kg dry	0.00996		112	23-150			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Blank (B401118-BLK1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 22:40				
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L							
beta-BHC	0.00200 U	0.0500	0.00200	ug/L							
gamma-BHC	0.00400 U	0.100	0.00400	ug/L							
delta-BHC	0.00300 U	0.0500	0.00300	ug/L							
Heptachlor	0.00300 U	0.0500	0.00300	ug/L							
Aldrin	0.00200 U	0.0500	0.00200	ug/L							
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L							
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Endosulfan I	0.00200 U	0.100	0.00200	ug/L							
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Dieldrin	0.00200 U	0.100	0.00200	ug/L							
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L							
Endrin	0.00200 U	0.200	0.00200	ug/L							
Endosulfan II	0.00300 U	0.100	0.00300	ug/L							
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L							
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L							
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L							
4,4-DDT	0.00400 U	0.200	0.00400	ug/L							
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L							
Methoxychlor	0.00400 U	0.200	0.00400	ug/L							
Chlordane	0.150 U	1.00	0.150	ug/L							
Toxaphene	0.520 U	1.00	0.520	ug/L							

Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0240			ug/L	0.0250		96	67-116			

LCS (B401118-BS1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:14				
alpha-BHC	0.0420	0.0500	0.00200	ug/L	0.0500		84	52-128			I
beta-BHC	0.0520	0.0500	0.00200	ug/L	0.0500		104	56-127			
gamma-BHC	0.0500	0.100	0.00400	ug/L	0.0500		100	45-140			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500		90	46-142			I
Heptachlor	0.0520	0.0500	0.00300	ug/L	0.0500		104	48-147			
Aldrin	0.0430	0.0500	0.00200	ug/L	0.0500		86	50-121			I
Heptachlor Epoxide	0.0490	0.0800	0.00200	ug/L	0.0500		98	45-133			I
gamma-Chlordane	0.0470	0.800	0.00300	ug/L	0.0500		94	53-117			I



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

LCS (B401118-BS1)

Prepared: 21-Jan-14 10:39

Analyzed: 21-Jan-14 23:14

Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500		92	54-129			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500		88	51-117			I
Dieldrin	0.0480	0.100	0.00200	ug/L	0.0500		96	48-137			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500		96	48-127			I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500		96	54-140			I
Endosulfan II	0.0460	0.100	0.00300	ug/L	0.0500		92	45-138			I
4,4-DDD	0.0490	0.0800	0.00300	ug/L	0.0500		98	39-156			I
Endrin Aldehyde	0.0510	0.200	0.00300	ug/L	0.0500		102	47-141			I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500		96	49-141			I
4,4-DDT	0.0560	0.200	0.00400	ug/L	0.0500		112	38-162			I
Endrin Ketone	0.0490	0.200	0.00200	ug/L	0.0500		98	44-159			I
Methoxychlor	0.0620	0.200	0.00400	ug/L	0.0500		124	45-164			I

Surrogate: TCMX

0.0180

ug/L

0.0250

72

51-116

Surrogate: Decachlorobiphenyl

0.0230

ug/L

0.0250

92

67-116

Matrix Spike (B401118-MS1)

Source: 1312115-02

Prepared: 21-Jan-14 10:39

Analyzed: 21-Jan-14 23:47

alpha-BHC	0.0440	0.0500	0.00200	ug/L	0.0500	0.00200 U	88	51-108			I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117			I
gamma-BHC	0.0490	0.100	0.00400	ug/L	0.0500	0.00400 U	98	53-119			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500	0.00300 U	90	51-126			I
Heptachlor	0.0490	0.0500	0.00300	ug/L	0.0500	0.00300 U	98	41-126			I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111			I
Heptachlor Epoxide	0.0470	0.0800	0.00200	ug/L	0.0500	0.00200 U	94	56-116			I
gamma-Chlordane	0.0460	0.800	0.00300	ug/L	0.0500	0.00300 U	92	57-116			I
Endosulfan I	0.0440	0.100	0.00200	ug/L	0.0500	0.00200 U	88	58-113			I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118			I
Dieldrin	0.0450	0.100	0.00200	ug/L	0.0500	0.00200 U	90	59-120			I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	58-121			I
Endrin	0.0460	0.200	0.00200	ug/L	0.0500	0.00200 U	92	57-125			I
Endosulfan II	0.0470	0.100	0.00300	ug/L	0.0500	0.00300 U	94	59-121			I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123			I
Endrin Aldehyde	0.0500	0.200	0.00300	ug/L	0.0500	0.00300 U	100	56-120			I
Endosulfan Sulfate	0.0490	0.100	0.00300	ug/L	0.0500	0.00300 U	98	53-133			I
4,4-DDT	0.0570	0.200	0.00400	ug/L	0.0500	0.00400 U	114	47-132			I



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725 U.S. Highway 301 South
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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Matrix Spike (B401118-MS1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:47				
Endrin Ketone	0.0450	0.200	0.00200	ug/L	0.0500	0.00200 U	90	50-140			I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137			I
Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0270			ug/L	0.0250		108	67-116			
Matrix Spike Dup (B401118-MSD1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 22-Jan-14 00:21				
alpha-BHC	0.0430	0.0500	0.00200	ug/L	0.0500	0.00200 U	86	51-108	2	25	I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117	0	25	I
gamma-BHC	0.0510	0.100	0.00400	ug/L	0.0500	0.00400 U	102	53-119	4	25	I
delta-BHC	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	51-126	6	25	I
Heptachlor	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	41-126	2	25	I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111	0	25	I
Heptachlor Epoxide	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	56-116	2	25	I
gamma-Chlordane	0.0450	0.800	0.00300	ug/L	0.0500	0.00300 U	90	57-116	2	25	I
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	58-113	4	25	I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118	0	25	I
Dieldrin	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	59-120	2	25	I
4,4-DDE	0.0440	0.0800	0.00200	ug/L	0.0500	0.00200 U	88	58-121	9	25	I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500	0.00200 U	96	57-125	4	25	I
Endosulfan II	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	59-121	2	25	I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123	0	25	I
Endrin Aldehyde	0.0530	0.200	0.00300	ug/L	0.0500	0.00300 U	106	56-120	6	25	I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	53-133	2	25	I
4,4-DDT	0.0550	0.200	0.00400	ug/L	0.0500	0.00400 U	110	47-132	4	25	I
Endrin Ketone	0.0500	0.200	0.00200	ug/L	0.0500	0.00200 U	100	50-140	11	25	I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137	0	25	I
Surrogate: TCMX	0.0200			ug/L	0.0250		80	51-116			
Surrogate: Decachlorobiphenyl	0.0260			ug/L	0.0250		104	67-116			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401097 - Prep Method: 3550B

Blank (B401097-BLK1)		Prepared: 17-Jan-14 09:20				Analyzed: 17-Jan-14 20:16					
PCB 1016	0.00160 U	0.0500	0.00160	mg/kg wet							
PCB 1221	0.00630 U	0.0500	0.00630	mg/kg wet							
PCB 1232	0.00230 U	0.0500	0.00230	mg/kg wet							
PCB 1242	0.00160 U	0.0500	0.00160	mg/kg wet							
PCB 1248	0.00321 U	0.0500	0.00321	mg/kg wet							
PCB 1254	0.00280 U	0.0500	0.00280	mg/kg wet							
PCB 1260	0.00170 U	0.0500	0.00170	mg/kg wet							
Surrogate: Decachlorobiphenyl		0.0416		mg/kg wet	0.0333		125	28-148			
LCS (B401097-BS1)		Prepared: 17-Jan-14 09:20				Analyzed: 17-Jan-14 20:48					
PCB 1016	0.168	0.0500	0.00160	mg/kg wet	0.167		101	38-112			
PCB 1260	0.172	0.0500	0.00170	mg/kg wet	0.167		103	41-128			
Surrogate: Decachlorobiphenyl		0.0409		mg/kg wet	0.0333		123	28-148			
Matrix Spike (B401097-MS1)		Source: 1312115-01				Prepared: 17-Jan-14 09:20					
						Analyzed: 17-Jan-14 21:19					
PCB 1016	0.224	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	105	33-127			
PCB 1260	0.237	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	112	10-158			
Surrogate: Decachlorobiphenyl		0.0592		mg/kg dry	0.0426		139	28-148			
Matrix Spike Dup (B401097-MSD1)		Source: 1312115-01				Prepared: 17-Jan-14 09:20					
						Analyzed: 17-Jan-14 21:50					
PCB 1016	0.188	0.0638	0.00204	mg/kg dry	0.213	0.00204 U	88	33-127	18	25	
PCB 1260	0.194	0.0638	0.00217	mg/kg dry	0.213	0.00217 U	91	10-158	20	25	
Surrogate: Decachlorobiphenyl		0.0461		mg/kg dry	0.0426		108	28-148			

Batch: B401119 - Prep Method: 3510C

Blank (B401119-BLK1)		Prepared: 21-Jan-14 10:41				Analyzed: 22-Jan-14 20:00					
PCB 1016	0.163 U	0.500	0.163	ug/L							
PCB 1221	0.108 U	0.500	0.108	ug/L							
PCB 1232	0.141 U	0.500	0.141	ug/L							
PCB 1242	0.191 U	0.500	0.191	ug/L							
PCB 1248	0.133 U	0.500	0.133	ug/L							
PCB 1254	0.0950 U	0.500	0.0950	ug/L							
PCB 1260	0.144 U	0.500	0.144	ug/L							
Surrogate: Decachlorobiphenyl		0.644		ug/L	1.00		64	26-105			



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Project Number: 150929
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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401119 - Prep Method: 3510C

LCS (B401119-BS1)				Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:32				
PCB 1016	4.25	0.500	0.163	ug/L	5.00		85	55-113			
PCB 1260	4.54	0.500	0.144	ug/L	5.00		91	66-103			
Surrogate: Decachlorobiphenyl	0.540			ug/L	1.00		54	26-105			
Matrix Spike (B401119-MS1)				Source: 1312115-02			Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:03	
PCB 1016	4.76	0.500	0.163	ug/L	5.00	0.163 U	95	55-113			
PCB 1260	4.66	0.500	0.144	ug/L	5.00	0.144 U	93	66-103			
Surrogate: Decachlorobiphenyl	0.415			ug/L	1.00		42	26-105			
Matrix Spike Dup (B401119-MSD1)				Source: 1312115-02			Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:34	
PCB 1016	4.64	0.500	0.163	ug/L	5.00	0.163 U	93	55-113	3	25	
PCB 1260	4.73	0.500	0.144	ug/L	5.00	0.144 U	95	66-103	1	25	
Surrogate: Decachlorobiphenyl	0.461			ug/L	1.00		46	26-105			



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Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401086 - Prep Method: 3550B

Blank (B401086-BLK1)					Prepared: 16-Jan-14 08:43		Analyzed: 16-Jan-14 14:54				
FL-PRO (C8-C40)	2.64 U	4.00	2.64	mg/kg wet							
Surrogate: o-Terphenyl	2.36			mg/kg wet	3.33		71	62-109			
Surrogate: n-Nonatriacontane	16.7			mg/kg wet	20.0		83	60-118			
LCS (B401086-BS1)					Prepared: 16-Jan-14 08:43		Analyzed: 16-Jan-14 15:23				
FL-PRO (C8-C40)	36.9	4.00	2.64	mg/kg wet	47.0		79	63-153			
Surrogate: o-Terphenyl	2.43			mg/kg wet	3.33		73	62-109			
Surrogate: n-Nonatriacontane	16.0			mg/kg wet	20.0		80	60-118			
Matrix Spike (B401086-MS1)					Source: 1312116-01		Prepared: 16-Jan-14 08:43		Analyzed: 16-Jan-14 15:53		
FL-PRO (C8-C40)	46.6	4.26	2.81	mg/kg dry	50.1	15.8	62	62-204			
Surrogate: o-Terphenyl	2.67			mg/kg dry	3.55		75	62-109			
Surrogate: n-Nonatriacontane	17.6			mg/kg dry	21.3		83	60-118			
Matrix Spike Dup (B401086-MSD1)					Source: 1312116-01		Prepared: 16-Jan-14 08:43		Analyzed: 16-Jan-14 16:30		
FL-PRO (C8-C40)	47.5	4.26	2.81	mg/kg dry	50.1	15.8	63	62-204	2	25	
Surrogate: o-Terphenyl	2.93			mg/kg dry	3.55		83	62-109			
Surrogate: n-Nonatriacontane	18.7			mg/kg dry	21.3		88	60-118			

Batch: B401095 - Prep Method: 3510C

Blank (B401095-BLK1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 09:44				
FL-PRO (C8-C40)	171 U	400	171	ug/L							
Surrogate: o-Terphenyl	76.0			ug/L	100		76	82-142			J2
Surrogate: n-Nonatriacontane	528			ug/L	600		88	42-193			
LCS (B401095-BS1)					Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:19				
FL-PRO (C8-C40)	1200	400	171	ug/L	1410		85	55-118			
Surrogate: o-Terphenyl	79.0			ug/L	100		79	82-142			J2
Surrogate: n-Nonatriacontane	501			ug/L	600		84	42-193			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401095 - Prep Method: 3510C

Matrix Spike (B401095-MS1)		Source: 1311125-07			Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 10:55				
FL-PRO (C8-C40)	4860	400	171	ug/L	1410	4660	14	41-101			J2
Surrogate: o-Terphenyl	71.0			ug/L	100		71	82-142			J2
Surrogate: n-Nonatriacontane	468			ug/L	600		78	42-193			
Matrix Spike Dup (B401095-MSD1)		Source: 1311125-07			Prepared: 17-Jan-14 14:31		Analyzed: 18-Jan-14 11:30				
FL-PRO (C8-C40)	4760	400	171	ug/L	1410	4660	7	41-101	2	20	J2
Surrogate: o-Terphenyl	72.0			ug/L	100		72	82-142			J2
Surrogate: n-Nonatriacontane	490			ug/L	600		82	42-193			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401099 - Prep Method: 3050B

Blank (B401099-BLK1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:16				
Arsenic	0.220 U	1.00	0.220	mg/kg wet							
Cadmium	0.0970 U	0.500	0.0970	mg/kg wet							
Chromium	0.330 U	1.00	0.330	mg/kg wet							
Lead	0.240 U	1.00	0.240	mg/kg wet							
LCS (B401099-BS1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:19				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		101	80-120			
Cadmium	25.1	0.500	0.0970	mg/kg wet	25.0		101	80-120			
Chromium	24.7	1.00	0.330	mg/kg wet	25.0		99	80-120			
Lead	25.6	1.00	0.240	mg/kg wet	25.0		102	80-120			
LCS Dup (B401099-BSD1)				Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:22				
Arsenic	25.1	1.00	0.220	mg/kg wet	25.0		100	80-120	0.1	20	
Cadmium	25.2	0.500	0.0970	mg/kg wet	25.0		101	80-120	0.1	20	
Chromium	24.4	1.00	0.330	mg/kg wet	25.0		98	80-120	1	20	
Lead	25.5	1.00	0.240	mg/kg wet	25.0		102	80-120	0.2	20	
Matrix Spike (B401099-MS1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:25				
Arsenic	52.4	1.28	0.281	mg/kg dry	63.8	0.281 U	82	75-125			
Cadmium	48.7	0.638	0.124	mg/kg dry	63.8	0.124 U	76	75-125			
Chromium	48.4	1.28	0.421	mg/kg dry	63.8	0.421 U	76	75-125			
Lead	47.9	1.28	0.306	mg/kg dry	63.8	0.306 U	75	75-125			
Matrix Spike Dup (B401099-MSD1)				Source: 1312115-01 Prepared: 17-Jan-14 14:13			Analyzed: 20-Jan-14 11:28				
Arsenic	55.0	1.28	0.281	mg/kg dry	63.8	0.281 U	86	75-125	5	20	
Cadmium	51.9	0.638	0.124	mg/kg dry	63.8	0.124 U	81	75-125	6	20	
Chromium	52.7	1.28	0.421	mg/kg dry	63.8	0.421 U	83	75-125	9	20	
Lead	51.6	1.28	0.306	mg/kg dry	63.8	0.306 U	81	75-125	7	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401107 - Prep Method: 3010A

Blank (B401107-BLK1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:31				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401107-BS1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:35				
Arsenic	497	10.0	4.00	ug/L	500		99	80-120			
Cadmium	497	5.00	1.00	ug/L	500		99	80-120			
Chromium	489	10.0	4.00	ug/L	500		98	80-120			
Lead	494	10.0	4.00	ug/L	500		99	80-120			
LCS Dup (B401107-BSD1)				Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:38				
Arsenic	495	10.0	4.00	ug/L	500		99	80-120	0.4	20	
Cadmium	495	5.00	1.00	ug/L	500		99	80-120	0.4	20	
Chromium	490	10.0	4.00	ug/L	500		98	80-120	0.3	20	
Lead	489	10.0	4.00	ug/L	500		98	80-120	1	20	
Matrix Spike (B401107-MS1)				Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:41	
Arsenic	541	10.0	4.00	ug/L	500	6.00	107	75-125			
Cadmium	493	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125			
Lead	472	10.0	4.00	ug/L	500	4.00 U	94	75-125			
Matrix Spike Dup (B401107-MSD1)				Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:44	
Arsenic	540	10.0	4.00	ug/L	500	6.00	107	75-125	0.2	20	
Cadmium	496	5.00	1.00	ug/L	500	1.00 U	99	75-125	0.5	20	
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125	0.02	20	
Lead	476	10.0	4.00	ug/L	500	4.00 U	95	75-125	0.8	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401109 - Prep Method: 3010A

Blank (B401109-BLK1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:32				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401109-BS1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:35				
Arsenic	487	10.0	4.00	ug/L	500		97	80-120			
Cadmium	491	5.00	1.00	ug/L	500		98	80-120			
Chromium	482	10.0	4.00	ug/L	500		96	80-120			
Lead	490	10.0	4.00	ug/L	500		98	80-120			
Matrix Spike (B401109-MS1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:41	
Arsenic	517	10.0	4.00	ug/L	500	8.80	102	75-125			
Cadmium	446	5.00	1.00	ug/L	500	1.00 U	89	75-125			
Chromium	484	10.0	4.00	ug/L	500	4.00 U	97	75-125			
Lead	408	10.0	4.00	ug/L	500	4.00 U	82	75-125			
Matrix Spike Dup (B401109-MSD1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:45	
Arsenic	519	10.0	4.00	ug/L	500	8.80	102	75-125	0.4	20	
Cadmium	452	5.00	1.00	ug/L	500	1.00 U	90	75-125	1	20	
Chromium	480	10.0	4.00	ug/L	500	4.00 U	96	75-125	0.8	20	
Lead	415	10.0	4.00	ug/L	500	4.00 U	83	75-125	2	20	



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

SM 2540G - % Dry Solids - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401084 - Prep Method: % Solids

Duplicate (B401084-DUP1)	Source: 1312116-02		Prepared: 15-Jan-14 14:29		Analyzed: 16-Jan-14 14:51	
% Dry Solids	82.6	0.100	% by Weight	83.7	1	20



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 08:28
Lab Work Order (COC): 1312116

Notes and Definitions

J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
I	Result is between LOQ/PQL and LOD/MDL.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



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Page 1 of 2



CHAIN OF CUSTODY

Lab Work Order Number:

1312116

Client Name CB&I (Tampa)		Project Name SR679 Pinellas Bayway Structure E		Requested Analyses 6010 4 RCRA Metals Lab Filtered 8081B::8082A::8270D- BNA::FLPRO::SM2540G 8260C-Full 8260C-Full 8081B::8082A::8270D-BNA 8260C-Full										Requested Turn Around FDEP Facility No.: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) 5 Expedited (days) Requested Due Date																			
Project Manager Nathan Miller		Project Number [none] 150929		6010 4 RCRA Metals FLPRO 8081B::8082A::8270D-BNA 8260C-Full 8260C-Full 8081B::8082A::8270D-BNA 8260C-Full										Sample Jaime Perie		Sampler Signature 																	
Client Address 725 U.S. Highway 301 South		Project Location Site #4 Ste: Texaco - Tierra Verde Marina/BP												Shipped By		Tracking Number		Sample Comments		Lab ID													
City Tampa		PO Number												Phone 813-612-3667 Fax (813) 626-1663		Sample Name or Field ID		Sampled Date		Sampled Time		Sample Type (Grab / Composite)		Matrix Code		Container Count		Preservation Code		Sample		Lab ID	
State/Zip FL, 33619		Tracking Number												Sample		Sampled Date		Sampled Time		Sample Type (Grab / Composite)		Matrix Code		Container Count		Preservation Code		Sample		Lab ID			

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type (Grab / Composite)	Matrix Code	Container Count	HNO3	H2SO4	ICE	ICE+	ICE-	ICE	ICE	Sample	Lab ID
1 Site #4 SB#4 9' DIS 1/14/14 1120	1/14/14	1120	G	SO	4					3	1			1312116-01
2 Site #4 SB#4 8' DIS 1/14/14 1405	1/14/14	1405	G	GW	9	1	1	3	3	3	1	1	1312116-02	
MS			G	GW	4	0	1	3	0	0	0	0	Matrix Spike	
MSD			G	GW	4	0	1	3	0	0	0	0	Matrix Spike Dupe	

Item Numbers 1-4	Relinquished By [Signature]	Received By [Signature]	Date/Time 1/13/14 800	Sample Kit Prepared By [Signature]	Date/Time 12-19-13 2850
Item Numbers 1-2	Relinquished By [Signature]	Received By [Signature]	Date/Time 1/13/14 1500	Comments Please fill MS & MSD containers for Q.C. Both Soil Samples UOG	
Item Numbers 1-2	Relinquished By [Signature]	Received By [Signature]	Date/Time 1/15/14 630		
Item Numbers 1-2	Relinquished By [Signature]	Received By [Signature]	Date/Time 1-15-14 1130		
Cooler Numbers and Temperatures 2-6 ref			Total # of Containers 8		

Matrix Codes:

GW=Ground Water, SO=Soil

Preserv. Codes:

HNO3=[Group Analysis] ICE=Frozen -10°C+MeOH,, H2SO4=pH<2 w/ H2SO4+Store 4°C, ICE=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace,

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Page 1 of 2



CHAIN OF CUSTODY

Lab Work Order Number:

1312116

[illegible]

Matrix Codes: GW=Ground Water, SO=Soil

Containers:	
Preserv. Codas:	HNO3=[Group Analysis], ICE= Frozen -10°C+MeOH., H2SO4=pH<2 w/ H2SO4+Store 4°C, ICE=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace,



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Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

24 January 2014
Lab Work Order (COC): 1312118

RE: SR679 Pinellas Bayway Structure E
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **16-Jan-14 17:30**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-2	1312118-02	Ground Water	16-Jan-14 13:07	16-Jan-14 18:07



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 22:40			
EPA Method 8260C - VOC/FULL					Analyzed: 21-Jan-14 22:40			
					Batch: B401136			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L	1			
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L	1			
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L	1			
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L	1			
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L	1			
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L	1			
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L	1			
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L	1			
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L	1			
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L	1			
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L	1			
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L	1			
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L	1			
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L	1			
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L	1			
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L	1			
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L	1			
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L	1			
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L	1			
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L	1			
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L	1			
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L	1			
2-Hexanone	4.00 U	20.0	4.00	ug/L	1			
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L	1			
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L	1			
Acetone	5.00 U	10.0	5.00	ug/L	1			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Bromobenzene	0.410 U	2.00	0.410	ug/L	1			
Bromochloromethane	0.500 U	5.00	0.500	ug/L	1			



NELAP Certificate No. E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 21-Jan-14 22:40			
EPA Method 8260C - VOC/FULL					Analyzed: 21-Jan-14 22:40		Batch: B401136	
Bromodichloromethane	0.540 U	0.600	0.540	ug/L	1			
Bromoform	0.650 U	2.00	0.650	ug/L	1			
Bromomethane	2.00 U	5.00	2.00	ug/L	1			
Carbon Disulfide	1.10	2.00	0.800	ug/L	1			I
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L	1			
Chlorobenzene	0.560 U	2.00	0.560	ug/L	1			
Chloroethane	1.17 U	2.00	1.17	ug/L	1			
Chloroform	1.00 U	2.00	1.00	ug/L	1			
Chloromethane	0.560 U	2.00	0.560	ug/L	1			
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L	1			
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L	1			
Dibromochloromethane	0.710 U	2.00	0.710	ug/L	1			
Dibromomethane	0.250 U	2.00	0.250	ug/L	1			
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L	1			
Ethylbenzene	0.500 U	2.00	0.500	ug/L	1			
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L	1			
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L	1			
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L	1			
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L	1			
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	1			
Methylene Chloride	2.50 U	5.00	2.50	ug/L	1			
Naphthalene	1.36 U	5.00	1.36	ug/L	1			
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L	1			
n-Propylbenzene	0.630 U	2.00	0.630	ug/L	1			
o-Xylene	0.660 U	2.00	0.660	ug/L	1			
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L	1			
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L	1			
Styrene	0.640 U	2.00	0.640	ug/L	1			
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L	1			
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L	1			
Toluene	0.580 U	2.00	0.580	ug/L	1			



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Reported:
24-Jan-14 10:17
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TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 22:40								
Analyzed: 21-Jan-14 22:40								
Batch: B401136								
EPA Method 8260C - VOC/FULL								
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L	1			
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L	1			
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L	1			
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L	1			
Vinyl Acetate	1.63 U	2.00	1.63	ug/L	1			
Vinyl Chloride	0.970 U	1.00	0.970	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	49.0			ug/L			98 % 80-120	
Surrogate: 4-Bromofluorobenzene	49.2			ug/L			98 % 80-120	
Surrogate: Dibromofluoromethane	51.4			ug/L			103 % 80-120	
Surrogate: Toluene-d8	49.0			ug/L			98 % 80-120	
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 16:28								
Batch: B401120								
EPA Method 8270D - BNAs								
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L	1			
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L	1			
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L	1			
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L	1			
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L	1			
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L	1			
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L	1			
1-Naphthylamine	5.03 U	10.0	5.03	ug/L	1			
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L	1			
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L	1			
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L	1			
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L	1			
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L	1			
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L	1			
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L	1			
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L	1			
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L	1			
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L	1			



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Project Manager: Nathan Miller

Reported:
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Lab Work Order (COC): 1312118

TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 16:28								
Batch: B401120								
EPA Method 8270D - BNAs								
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L	1			
2-Chlorophenol	1.47 U	5.00	1.47	ug/L	1			
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L	1			
2-Methylphenol	0.534 U	5.00	0.534	ug/L	1			
2-Naphthylamine	2.37 U	10.0	2.37	ug/L	1			
2-Nitroaniline	0.892 U	20.0	0.892	ug/L	1			
2-Nitrophenol	1.73 U	20.0	1.73	ug/L	1			
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L	1			
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L	1			
3-Nitroaniline	1.26 U	5.00	1.26	ug/L	1			
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L	1			
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L	1			
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L	1			
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L	1			
4-Chloroaniline	2.88 U	5.00	2.88	ug/L	1			
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L	1			
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L	1			
4-Nitroaniline	1.20 U	5.00	1.20	ug/L	1			
4-Nitrophenol	0.717 U	20.0	0.717	ug/L	1			
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L	1			
Acenaphthene	0.0640 U	1.00	0.0640	ug/L	1			
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L	1			
Aniline	3.70 U	4.00	3.70	ug/L	1			
Anthracene	0.0670 U	0.300	0.0670	ug/L	1			
Azobenzene	0.785 U	1.00	0.785	ug/L	1			
Benzidine	5.70 U	50.0	5.70	ug/L	1			
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L	1			
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L	1			
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L	1			
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L	1			
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L	1			



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Reported:
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TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 16:28								
Batch: B401120								
EPA Method 8270D - BNAs								
Benzyl alcohol	0.386 U	5.00	0.386	ug/L	1			
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L	1			
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L	1			
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L	1			
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L	1			
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L	1			
Carbazole	0.521 U	5.00	0.521	ug/L	1			
Chrysene	0.135 U	0.200	0.135	ug/L	1			
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L	1			
Dibenzofuran	0.716 U	5.00	0.716	ug/L	1			
Diethylphthalate	0.795 U	5.00	0.795	ug/L	1			
Dimethylphthalate	0.617 U	5.00	0.617	ug/L	1			
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L	1			
Fluoranthene	0.0910 U	0.300	0.0910	ug/L	1			
Fluorene	0.0660 U	1.00	0.0660	ug/L	1			
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L	1			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L	1			
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L	1			
Hexachloroethane	1.53 U	5.00	1.53	ug/L	1			
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L	1			
Isophorone	1.00 U	5.00	1.00	ug/L	1			
Naphthalene	0.0640 U	1.00	0.0640	ug/L	1			
Nitrobenzene	0.746 U	3.50	0.746	ug/L	1			
o-Toluidine	3.32 U	5.00	3.32	ug/L	1			
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L	1			
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L	1			
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L	1			
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L	1			
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L	1			
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L	1			



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TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:42								
Analyzed: 22-Jan-14 16:28								
Batch: B401120								
EPA Method 8270D - BNAs								
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L	1			
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L	1			
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L	1			
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L	1			
Pentachlorophenol	1.72 U	20.0	1.72	ug/L	1			
Phenanthrene	0.0780 U	0.200	0.0780	ug/L	1			
Phenol	0.796 U	6.50	0.796	ug/L	1			
Pyrene	0.0930 U	0.300	0.0930	ug/L	1			
Pyridine	0.689 U	5.00	0.689	ug/L	1			
Surrogate: 2,4,6-Tribromophenol	30.3			ug/L			61 % 15-122	
Surrogate: 2-Fluorobiphenyl	16.7			ug/L			67 % 49-100	
Surrogate: 2-Fluorophenol	13.1			ug/L			26 % 1-100	
Surrogate: Nitrobenzene-d5	15.3			ug/L			61 % 47-106	
Surrogate: Phenol-d5	9.22			ug/L			18 % 2-100	
Surrogate: Terphenyl-d14	19.6			ug/L			78 % 56-108	
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 03:09								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
beta-BHC	0.00200 U	0.0500	0.00200	ug/L	1			
gamma-BHC	0.00400 U	0.100	0.00400	ug/L	1			
delta-BHC	0.00300 U	0.0500	0.00300	ug/L	1			
Heptachlor	0.00300 U	0.0500	0.00300	ug/L	1			
Aldrin	0.00200 U	0.0500	0.00200	ug/L	1			
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L	1			
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Endosulfan I	0.00200 U	0.100	0.00200	ug/L	1			
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L	1			
Dieldrin	0.00200 U	0.100	0.00200	ug/L	1			
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L	1			
Endrin	0.00200 U	0.200	0.00200	ug/L	1			



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TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 21-Jan-14 10:39								
Analyzed: 22-Jan-14 03:09								
Batch: B401118								
EPA Method 8081B - Organochlorine Pesticides								
Endosulfan II	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L	1			
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L	1			
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L	1			
4,4-DDT	0.00400 U	0.200	0.00400	ug/L	1			
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L	1			
Methoxychlor	0.00400 U	0.200	0.00400	ug/L	1			
Chlordane	0.150 U	1.00	0.150	ug/L	1			
Toxaphene	0.520 U	1.00	0.520	ug/L	1			
Surrogate: TCMX	0.0230			ug/L			92 % 51-116	
Surrogate: Decachlorobiphenyl	0.0300			ug/L			120 % 67-116	J2
Prepared: 21-Jan-14 10:41								
Analyzed: 23-Jan-14 00:11								
Batch: B401119								
EPA Method 8082A - Polychlorinated Biphenyls								
PCB 1016	0.163 U	0.500	0.163	ug/L	1			
PCB 1221	0.108 U	0.500	0.108	ug/L	1			
PCB 1232	0.141 U	0.500	0.141	ug/L	1			
PCB 1242	0.191 U	0.500	0.191	ug/L	1			
PCB 1248	0.133 U	0.500	0.133	ug/L	1			
PCB 1254	0.0950 U	0.500	0.0950	ug/L	1			
PCB 1260	0.144 U	0.500	0.144	ug/L	1			
Surrogate: Decachlorobiphenyl	0.739			ug/L			74 % 26-105	
Prepared: 17-Jan-14 14:31								
Analyzed: 20-Jan-14 10:25								
Batch: B401095								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	280	400	171	ug/L	1			I
Surrogate: o-Terphenyl	79.0			ug/L			79 % 82-142	J2
Surrogate: n-Nonatriacontane	513			ug/L			86 % 42-193	



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Reported:
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TW-2
1312118-02 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 20-Jan-14 14:06								
Analyzed: 22-Jan-14 14:10 Batch: B401107								
EPA Method 6010C - Metals by ICP								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Prepared: 20-Jan-14 14:32								
Analyzed: 21-Jan-14 13:10 Batch: B401109								
EPA Method 6010C - Metals by ICP (Lab-Filtered)								
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			



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Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	RPD	RPD	RPD	Qualifiers
							Limits	Limit	Limit		
Batch: B401113 - Prep Method: 5030B											
Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19			Analyzed: 18-Jan-14 08:19			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L							
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L							
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L							
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L							
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L							
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L							
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L							
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L							
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L							
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L							
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L							
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L							
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L							
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L							
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L							
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L							
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L							
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L							
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L							
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L							
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L							
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L							
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L							
2-Hexanone	4.00 U	20.0	4.00	ug/L							
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L							
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L							
Acetone	5.00 U	10.0	5.00	ug/L							
Benzene	0.450 U	1.00	0.450	ug/L							
Bromobenzene	0.410 U	2.00	0.410	ug/L							
Bromochloromethane	0.500 U	5.00	0.500	ug/L							
Bromodichloromethane	0.540 U	0.600	0.540	ug/L							
Bromoform	0.650 U	2.00	0.650	ug/L							



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	RPD Limit	Qualifiers	

Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Bromomethane	2.00 U	5.00	2.00	ug/L							
Carbon Disulfide	0.800 U	2.00	0.800	ug/L							
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L							
Chlorobenzene	0.560 U	2.00	0.560	ug/L							
Chloroethane	1.17 U	2.00	1.17	ug/L							
Chloroform	1.00 U	2.00	1.00	ug/L							
Chloromethane	0.560 U	2.00	0.560	ug/L							
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L							
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L							
Dibromochloromethane	0.710 U	2.00	0.710	ug/L							
Dibromomethane	0.250 U	2.00	0.250	ug/L							
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L							
Ethylbenzene	0.500 U	2.00	0.500	ug/L							
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L							
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L							
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L							
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L							
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L							
Methylene Chloride	2.50 U	5.00	2.50	ug/L							
Naphthalene	1.36 U	5.00	1.36	ug/L							
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L							
n-Propylbenzene	0.630 U	2.00	0.630	ug/L							
o-Xylene	0.660 U	2.00	0.660	ug/L							
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L							
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L							
Styrene	0.640 U	2.00	0.640	ug/L							
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L							
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L							
Toluene	0.580 U	2.00	0.580	ug/L							
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L							
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L							
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L							
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L							



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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Blank (B401113-BLK1)					Prepared: 18-Jan-14 08:19		Analyzed: 18-Jan-14 08:19				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	50.6			ug/L	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	51.6			ug/L	50.0		103	80-120			
Surrogate: Dibromofluoromethane	49.9			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
1,1,1,2-Tetrachloroethane	39.4	1.30	0.700	ug/L	40.0		98	72-124			
1,1,1-Trichloroethane	42.8	2.00	0.600	ug/L	40.0		107	76-122			
1,1,2,2-Tetrachloroethane	39.8	0.500	0.410	ug/L	40.0		100	71-112			
1,1,2-Trichloroethane	39.4	2.00	0.330	ug/L	40.0		99	79-110			
1,1-Dichloroethane	41.4	2.00	0.250	ug/L	40.0		104	80-112			
1,1-Dichloroethene	41.0	2.00	1.14	ug/L	40.0		103	74-122			
1,1-Dichloropropene	43.4	2.00	0.800	ug/L	40.0		108	83-116			
1,2,3-Trichlorobenzene	41.5	2.00	0.720	ug/L	40.0		104	76-116			
1,2,3-Trichloropropane	39.3	0.500	0.320	ug/L	40.0		98	71-115			
1,2,4-Trichlorobenzene	41.1	2.00	0.760	ug/L	40.0		103	73-118			
1,2,4-Trimethylbenzene	44.3	2.00	0.690	ug/L	40.0		111	80-119			
1,2-Dibromo-3-Chloropropane	38.8	2.00	1.05	ug/L	40.0		97	43-135			
1,2-Dibromoethane (EDB)	39.4	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	41.2	2.00	0.470	ug/L	40.0		103	80-110			
1,2-Dichloroethane	39.2	2.00	0.380	ug/L	40.0		98	73-116			
1,2-Dichloropropane	40.6	2.00	0.410	ug/L	40.0		101	78-113			
1,3,5-Trimethylbenzene	44.1	2.00	0.640	ug/L	40.0		110	80-118			
1,3-Dichlorobenzene	41.2	2.00	0.490	ug/L	40.0		103	80-110			
1,3-Dichloropropane	39.4	4.00	0.300	ug/L	40.0		98	80-109			
1,4-Dichlorobenzene	40.1	2.00	0.490	ug/L	40.0		100	78-107			
2,2-Dichloropropane	47.2	7.00	0.770	ug/L	40.0		118	51-138			
2-Butanone (MEK)	88.4	20.0	5.00	ug/L	100		88	57-129			
2-Chloroethyl Vinyl Ether	91.8	5.00	1.61	ug/L	100		92	45-145			
2-Chlorotoluene	42.1	2.00	0.450	ug/L	40.0		105	78-113			
2-Hexanone	102	20.0	4.00	ug/L	100		102	58-135			
4-Chlorotoluene	42.6	2.00	0.500	ug/L	40.0		107	79-115			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
4-Methyl-2-Pentanone (MIBK)	98.4	20.0	4.00	ug/L	100		98	65-135			
Acetone	104	10.0	5.00	ug/L	100		104	55-127			
Benzene	41.7	1.00	0.450	ug/L	40.0		104	82-113			
Bromobenzene	40.5	2.00	0.410	ug/L	40.0		101	80-114			
Bromochloromethane	39.5	5.00	0.500	ug/L	40.0		99	81-115			
Bromodichloromethane	40.7	0.600	0.540	ug/L	40.0		102	76-117			
Bromoform	38.6	2.00	0.650	ug/L	40.0		97	64-126			
Bromomethane	42.2	5.00	2.00	ug/L	40.0		105	40-138			
Carbon Disulfide	41.7	2.00	0.800	ug/L	40.0		104	78-116			
Carbon Tetrachloride	43.7	2.00	0.700	ug/L	40.0		109	74-129			
Chlorobenzene	40.7	2.00	0.560	ug/L	40.0		102	79-112			
Chloroethane	39.8	2.00	1.17	ug/L	40.0		100	70-116			
Chloroform	39.4	2.00	1.00	ug/L	40.0		99	72-115			
Chloromethane	41.0	2.00	0.560	ug/L	40.0		102	71-117			
cis-1,2-Dichloroethene	41.0	5.00	0.500	ug/L	40.0		102	83-112			
cis-1,3-Dichloropropene	41.6	0.500	0.260	ug/L	40.0		104	78-120			
Dibromochloromethane	40.6	2.00	0.710	ug/L	40.0		102	72-122			
Dibromomethane	39.1	2.00	0.250	ug/L	40.0		98	77-115			
Dichlorodifluoromethane	42.8	2.00	0.930	ug/L	40.0		107	63-129			
Ethylbenzene	43.4	2.00	0.500	ug/L	40.0		109	82-116			
Hexachlorobutadiene	39.1	3.00	2.00	ug/L	40.0		98	68-117			
Iodomethane (Methyl Iodide)	29.9	20.0	12.2	ug/L	40.0		75	30-127			
Isopropylbenzene (Cumene)	44.9	2.00	0.760	ug/L	40.0		112	80-122			
m- & p-Xylenes	87.7	4.00	1.23	ug/L	80.0		110	81-120			
Methyl tert-Butyl Ether (MTBE)	39.4	3.00	0.250	ug/L	40.0		98	71-115			
Methylene Chloride	35.4	5.00	2.50	ug/L	40.0		89	73-119			
Naphthalene	41.5	5.00	1.36	ug/L	40.0		104	67-117			
n-Butyl Benzene	44.9	2.00	1.10	ug/L	40.0		112	78-121			
n-Propylbenzene	44.1	2.00	0.630	ug/L	40.0		110	79-117			
o-Xylene	43.4	2.00	0.660	ug/L	40.0		109	80-119			
p-Isopropyltoluene	43.7	2.00	0.780	ug/L	40.0		109	78-117			
sec-Butyl Benzene	44.6	2.00	0.800	ug/L	40.0		112	79-119			
Styrene	43.5	2.00	0.640	ug/L	40.0		109	83-121			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

LCS (B401113-BS1)					Prepared: 18-Jan-14 08:48		Analyzed: 18-Jan-14 08:48				
tert-Butyl Benzene	45.0	2.00	0.690	ug/L	40.0		112	76-119			
Tetrachloroethene (PCE)	38.2	2.00	1.50	ug/L	40.0		96	62-140			
Toluene	41.9	2.00	0.580	ug/L	40.0		105	80-112			
trans-1,2-Dichloroethene	41.1	2.00	0.500	ug/L	40.0		103	81-114			
trans-1,3-Dichloropropene	40.6	2.00	0.450	ug/L	40.0		102	70-119			
Trichloroethene (TCE)	41.8	2.00	0.740	ug/L	40.0		105	80-115			
Trichlorofluoromethane	42.7	2.00	1.10	ug/L	40.0		107	66-135			
Vinyl Acetate	106	2.00	1.63	ug/L	100		106	56-135			
Vinyl Chloride	42.4	1.00	0.970	ug/L	40.0		106	72-122			

Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	49.6			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	50.3			ug/L	50.0		101	80-120			

Matrix Spike (B401113-MS1)					Source: 1312093-01		Prepared: 18-Jan-14 16:05		Analyzed: 18-Jan-14 16:05		
1,1,1,2-Tetrachloroethane	363	13.0	7.00	ug/L	400	7.00 U	91	72-132			
1,1,1-Trichloroethane	386	20.0	6.00	ug/L	400	6.00 U	96	76-133			
1,1,2,2-Tetrachloroethane	371	5.00	4.10	ug/L	400	4.10 U	93	64-121			
1,1,2-Trichloroethane	365	20.0	3.30	ug/L	400	3.30 U	91	79-113			
1,1-Dichloroethane	377	20.0	2.50	ug/L	400	2.50 U	94	81-121			
1,1-Dichloroethene	369	20.0	11.4	ug/L	400	11.4 U	92	76-131			
1,1-Dichloropropene	384	20.0	8.00	ug/L	400	8.00 U	96	85-125			
1,2,3-Trichlorobenzene	375	20.0	7.20	ug/L	400	7.20 U	94	74-126			
1,2,3-Trichloropropane	356	5.00	3.20	ug/L	400	3.20 U	89	66-118			
1,2,4-Trichlorobenzene	374	20.0	7.60	ug/L	400	7.60 U	94	70-131			
1,2,4-Trimethylbenzene	401	20.0	6.90	ug/L	400	6.90 U	100	73-135			
1,2-Dibromo-3-Chloropropane	345	20.0	10.5	ug/L	400	10.5 U	86	36-143			
1,2-Dibromoethane (EDB)	364	20.0	2.90	ug/L	400	2.90 U	91	76-120			
1,2-Dichlorobenzene	375	20.0	4.70	ug/L	400	4.70 U	94	79-117			
1,2-Dichloroethane	360	20.0	3.80	ug/L	400	3.80 U	90	72-123			
1,2-Dichloropropane	370	20.0	4.10	ug/L	400	4.10 U	92	78-122			
1,3,5-Trimethylbenzene	400	20.0	6.40	ug/L	400	6.40 U	100	77-132			
1,3-Dichlorobenzene	381	20.0	4.90	ug/L	400	4.90 U	95	81-117			
1,3-Dichloropropane	363	40.0	3.00	ug/L	400	3.00 U	91	79-114			



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EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01				Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05			
1,4-Dichlorobenzene	364	20.0	4.90	ug/L	400	4.90 U	91	78-113			
2,2-Dichloropropane	390	70.0	7.70	ug/L	400	7.70 U	97	44-138			
2-Butanone (MEK)	787	200	50.0	ug/L	1000	50.0 U	79	48-136			
2-Chloroethyl Vinyl Ether	806	50.0	16.1	ug/L	1000	16.1 U	81	34-152			
2-Chlorotoluene	386	20.0	4.50	ug/L	400	4.50 U	96	71-132			
2-Hexanone	902	200	40.0	ug/L	1000	40.0 U	90	52-144			
4-Chlorotoluene	388	20.0	5.00	ug/L	400	5.00 U	97	77-125			
4-Methyl-2-Pentanone (MIBK)	902	200	40.0	ug/L	1000	40.0 U	90	64-141			
Acetone	895	100	50.0	ug/L	1000	50.0 U	89	48-133			
Benzene	381	10.0	4.50	ug/L	400	4.50 U	95	70-135			
Bromobenzene	371	20.0	4.10	ug/L	400	4.10 U	93	82-119			
Bromochloromethane	365	50.0	5.00	ug/L	400	5.00 U	91	82-121			
Bromodichloromethane	377	6.00	5.40	ug/L	400	5.40 U	94	75-126			
Bromoform	355	20.0	6.50	ug/L	400	6.50 U	89	63-129			
Bromomethane	160	50.0	20.0	ug/L	400	20.0 U	40	26-152			
Carbon Disulfide	391	20.0	8.00	ug/L	400	8.00 U	98	68-140			
Carbon Tetrachloride	392	20.0	7.00	ug/L	400	7.00 U	98	72-144			
Chlorobenzene	377	20.0	5.60	ug/L	400	5.60 U	94	82-116			
Chloroethane	363	20.0	11.7	ug/L	400	11.7 U	91	74-123			
Chloroform	367	20.0	10.0	ug/L	400	10.0 U	92	74-121			
Chloromethane	302	20.0	5.60	ug/L	400	5.60 U	76	70-125			
cis-1,2-Dichloroethene	373	50.0	5.00	ug/L	400	5.00 U	93	84-121			
cis-1,3-Dichloropropene	344	5.00	2.60	ug/L	400	2.60 U	86	73-127			
Dibromochloromethane	376	20.0	7.10	ug/L	400	7.10 U	94	71-129			
Dibromomethane	366	20.0	2.50	ug/L	400	2.50 U	92	76-120			
Dichlorodifluoromethane	388	20.0	9.30	ug/L	400	9.30 U	97	65-139			
Ethylbenzene	395	20.0	5.00	ug/L	400	5.00 U	99	74-134			
Hexachlorobutadiene	365	30.0	20.0	ug/L	400	20.0 U	91	68-123			
Iodomethane (Methyl Iodide)	133	200	122	ug/L	400	122 U	33	21-145			I
Isopropylbenzene (Cumene)	404	20.0	7.60	ug/L	400	7.60 U	101	76-136			
m- & p-Xylenes	796	40.0	12.3	ug/L	800	12.3 U	99	77-131			
Methyl tert-Butyl Ether (MTBE)	358	30.0	2.50	ug/L	400	2.50 U	89	64-123			
Methylene Chloride	321	50.0	25.0	ug/L	400	25.0 U	80	73-124			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike (B401113-MS1)	Source: 1312093-01			Prepared: 18-Jan-14 16:05			Analyzed: 18-Jan-14 16:05				
Naphthalene	381	50.0	13.6	ug/L	400	13.6 U	95	55-137			
n-Butyl Benzene	402	20.0	11.0	ug/L	400	11.0 U	101	68-139			
n-Propylbenzene	398	20.0	6.30	ug/L	400	6.30 U	100	69-135			
o-Xylene	391	20.0	6.60	ug/L	400	6.60 U	98	78-132			
p-Isopropyltoluene	393	20.0	7.80	ug/L	400	7.80 U	98	77-127			
sec-Butyl Benzene	403	20.0	8.00	ug/L	400	8.00 U	101	75-131			
Styrene	380	20.0	6.40	ug/L	400	6.40 U	95	80-134			
tert-Butyl Benzene	412	20.0	6.90	ug/L	400	6.90 U	103	78-132			
Tetrachloroethene (PCE)	328	20.0	15.0	ug/L	400	15.0 U	82	54-144			
Toluene	381	20.0	5.80	ug/L	400	5.80 U	95	82-120			
trans-1,2-Dichloroethene	375	20.0	5.00	ug/L	400	5.00 U	94	85-121			
trans-1,3-Dichloropropene	341	20.0	4.50	ug/L	400	4.50 U	85	62-126			
Trichloroethene (TCE)	377	20.0	7.40	ug/L	400	7.40 U	94	80-127			
Trichlorofluoromethane	387	20.0	11.0	ug/L	400	11.0 U	97	72-143			
Vinyl Acetate	987	20.0	16.3	ug/L	1000	16.3 U	99	46-145			
Vinyl Chloride	341	10.0	9.70	ug/L	400	9.70 U	85	75-131			

Surrogate: 1,2-Dichloroethane-d4	49.2			ug/L	50.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	50.1			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.8			ug/L	50.0		100	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
1,1,1,2-Tetrachloroethane	396	13.0	7.00	ug/L	400	7.00 U	99	72-132	9	20	
1,1,1-Trichloroethane	425	20.0	6.00	ug/L	400	6.00 U	106	76-133	10	20	
1,1,2,2-Tetrachloroethane	405	5.00	4.10	ug/L	400	4.10 U	101	64-121	9	20	
1,1,2-Trichloroethane	389	20.0	3.30	ug/L	400	3.30 U	97	79-113	6	20	
1,1-Dichloroethane	413	20.0	2.50	ug/L	400	2.50 U	103	81-121	9	20	
1,1-Dichloroethene	402	20.0	11.4	ug/L	400	11.4 U	101	76-131	9	20	
1,1-Dichloropropene	415	20.0	8.00	ug/L	400	8.00 U	104	85-125	8	20	
1,2,3-Trichlorobenzene	423	20.0	7.20	ug/L	400	7.20 U	106	74-126	12	20	
1,2,3-Trichloropropane	398	5.00	3.20	ug/L	400	3.20 U	100	66-118	11	20	
1,2,4-Trichlorobenzene	416	20.0	7.60	ug/L	400	7.60 U	104	70-131	11	20	
1,2,4-Trimethylbenzene	442	20.0	6.90	ug/L	400	6.90 U	110	73-135	10	20	
1,2-Dibromo-3-Chloropropane	388	20.0	10.5	ug/L	400	10.5 U	97	36-143	12	20	



NELAP Certificate No. E84880



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
1,2-Dibromoethane (EDB)	398	20.0	2.90	ug/L	400	2.90 U	99	76-120	9	20	
1,2-Dichlorobenzene	415	20.0	4.70	ug/L	400	4.70 U	104	79-117	10	20	
1,2-Dichloroethane	387	20.0	3.80	ug/L	400	3.80 U	97	72-123	7	20	
1,2-Dichloropropane	396	20.0	4.10	ug/L	400	4.10 U	99	78-122	7	20	
1,3,5-Trimethylbenzene	440	20.0	6.40	ug/L	400	6.40 U	110	77-132	10	20	
1,3-Dichlorobenzene	412	20.0	4.90	ug/L	400	4.90 U	103	81-117	8	20	
1,3-Dichloropropane	391	40.0	3.00	ug/L	400	3.00 U	98	79-114	8	20	
1,4-Dichlorobenzene	399	20.0	4.90	ug/L	400	4.90 U	100	78-113	9	20	
2,2-Dichloropropane	430	70.0	7.70	ug/L	400	7.70 U	107	44-138	10	20	
2-Butanone (MEK)	890	200	50.0	ug/L	1000	50.0 U	89	48-136	12	20	
2-Chloroethyl Vinyl Ether	839	50.0	16.1	ug/L	1000	16.1 U	84	34-152	4	30	
2-Chlorotoluene	426	20.0	4.50	ug/L	400	4.50 U	107	71-132	10	20	
2-Hexanone	1000	200	40.0	ug/L	1000	40.0 U	100	52-144	11	20	
4-Chlorotoluene	427	20.0	5.00	ug/L	400	5.00 U	107	77-125	9	20	
4-Methyl-2-Pentanone (MIBK)	1020	200	40.0	ug/L	1000	40.0 U	102	64-141	12	20	
Acetone	1020	100	50.0	ug/L	1000	50.0 U	102	48-133	13	20	
Benzene	417	10.0	4.50	ug/L	400	4.50 U	104	70-135	9	20	
Bromobenzene	410	20.0	4.10	ug/L	400	4.10 U	103	82-119	10	20	
Bromochloromethane	385	50.0	5.00	ug/L	400	5.00 U	96	82-121	5	20	
Bromodichloromethane	409	6.00	5.40	ug/L	400	5.40 U	102	75-126	8	20	
Bromoform	386	20.0	6.50	ug/L	400	6.50 U	96	63-129	8	20	
Bromomethane	213	50.0	20.0	ug/L	400	20.0 U	53	26-152	28	20	J2
Carbon Disulfide	431	20.0	8.00	ug/L	400	8.00 U	108	68-140	10	20	
Carbon Tetrachloride	430	20.0	7.00	ug/L	400	7.00 U	107	72-144	9	20	
Chlorobenzene	411	20.0	5.60	ug/L	400	5.60 U	103	82-116	9	20	
Chloroethane	393	20.0	11.7	ug/L	400	11.7 U	98	74-123	8	20	
Chloroform	399	20.0	10.0	ug/L	400	10.0 U	100	74-121	8	20	
Chloromethane	331	20.0	5.60	ug/L	400	5.60 U	83	70-125	9	20	
cis-1,2-Dichloroethene	406	50.0	5.00	ug/L	400	5.00 U	101	84-121	8	20	
cis-1,3-Dichloropropene	376	5.00	2.60	ug/L	400	2.60 U	94	73-127	9	20	
Dibromochloromethane	407	20.0	7.10	ug/L	400	7.10 U	102	71-129	8	20	
Dibromomethane	393	20.0	2.50	ug/L	400	2.50 U	98	76-120	7	20	
Dichlorodifluoromethane	422	20.0	9.30	ug/L	400	9.30 U	106	65-139	9	20	



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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401113 - Prep Method: 5030B

Matrix Spike Dup (B401113-MSD1)	Source: 1312093-01			Prepared: 18-Jan-14 16:35			Analyzed: 18-Jan-14 16:35				
Ethylbenzene	430	20.0	5.00	ug/L	400	5.00 U	107	74-134	8	20	J2
Hexachlorobutadiene	402	30.0	20.0	ug/L	400	20.0 U	100	68-123	10	20	
Iodomethane (Methyl Iodide)	236	200	122	ug/L	400	122 U	59	21-145	56	30	
Isopropylbenzene (Cumene)	447	20.0	7.60	ug/L	400	7.60 U	112	76-136	10	20	
m- & p-Xylenes	871	40.0	12.3	ug/L	800	12.3 U	109	77-131	9	20	
Methyl tert-Butyl Ether (MTBE)	395	30.0	2.50	ug/L	400	2.50 U	99	64-123	10	20	
Methylene Chloride	353	50.0	25.0	ug/L	400	25.0 U	88	73-124	9	20	
Naphthalene	436	50.0	13.6	ug/L	400	13.6 U	109	55-137	14	20	
n-Butyl Benzene	438	20.0	11.0	ug/L	400	11.0 U	109	68-139	8	20	
n-Propylbenzene	436	20.0	6.30	ug/L	400	6.30 U	109	69-135	9	20	
o-Xylene	434	20.0	6.60	ug/L	400	6.60 U	108	78-132	10	20	
p-Isopropyltoluene	429	20.0	7.80	ug/L	400	7.80 U	107	77-127	9	20	
sec-Butyl Benzene	442	20.0	8.00	ug/L	400	8.00 U	111	75-131	9	20	
Styrene	415	20.0	6.40	ug/L	400	6.40 U	104	80-134	9	20	
tert-Butyl Benzene	453	20.0	6.90	ug/L	400	6.90 U	113	78-132	10	20	
Tetrachloroethene (PCE)	351	20.0	15.0	ug/L	400	15.0 U	88	54-144	7	20	
Toluene	413	20.0	5.80	ug/L	400	5.80 U	103	82-120	8	20	
trans-1,2-Dichloroethene	411	20.0	5.00	ug/L	400	5.00 U	103	85-121	9	20	
trans-1,3-Dichloropropene	369	20.0	4.50	ug/L	400	4.50 U	92	62-126	8	20	
Trichloroethene (TCE)	417	20.0	7.40	ug/L	400	7.40 U	104	80-127	10	20	
Trichlorofluoromethane	418	20.0	11.0	ug/L	400	11.0 U	105	72-143	8	20	
Vinyl Acetate	1100	20.0	16.3	ug/L	1000	16.3 U	110	46-145	11	20	
Vinyl Chloride	377	10.0	9.70	ug/L	400	9.70 U	94	75-131	10	20	
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	51.0			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	50.6			ug/L	50.0		101	80-120			



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1) Prepared: 21-Jan-14 20:46 Analyzed: 21-Jan-14 20:46

1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L
1,2,4-Trimethylbenzene	0.690 U	2.00	0.690	ug/L
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L
1,3,5-Trimethylbenzene	0.640 U	2.00	0.640	ug/L
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L
2-Butanone (MEK)	5.00 U	20.0	5.00	ug/L
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L
2-Hexanone	4.00 U	20.0	4.00	ug/L
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L
4-Methyl-2-Pentanone (MIBK)	4.00 U	20.0	4.00	ug/L
Acetone	5.00 U	10.0	5.00	ug/L
Benzene	0.450 U	1.00	0.450	ug/L
Bromobenzene	0.410 U	2.00	0.410	ug/L
Bromochloromethane	0.500 U	5.00	0.500	ug/L
Bromodichloromethane	0.540 U	0.600	0.540	ug/L
Bromoform	0.650 U	2.00	0.650	ug/L



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec	RPD	RPD	RPD
							Limits	Limits	RPD Limit	Qualifiers	

Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1)					Prepared: 21-Jan-14 20:46		Analyzed: 21-Jan-14 20:46				
Bromomethane	2.00 U	5.00	2.00	ug/L							
Carbon Disulfide	0.800 U	2.00	0.800	ug/L							
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L							
Chlorobenzene	0.560 U	2.00	0.560	ug/L							
Chloroethane	1.17 U	2.00	1.17	ug/L							
Chloroform	1.00 U	2.00	1.00	ug/L							
Chloromethane	0.560 U	2.00	0.560	ug/L							
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L							
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L							
Dibromochloromethane	0.710 U	2.00	0.710	ug/L							
Dibromomethane	0.250 U	2.00	0.250	ug/L							
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L							
Ethylbenzene	0.500 U	2.00	0.500	ug/L							
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L							
Iodomethane (Methyl Iodide)	12.2 U	20.0	12.2	ug/L							
Isopropylbenzene (Cumene)	0.760 U	2.00	0.760	ug/L							
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L							
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L							
Methylene Chloride	2.50 U	5.00	2.50	ug/L							
Naphthalene	1.36 U	5.00	1.36	ug/L							
n-Butyl Benzene	1.10 U	2.00	1.10	ug/L							
n-Propylbenzene	0.630 U	2.00	0.630	ug/L							
o-Xylene	0.660 U	2.00	0.660	ug/L							
p-Isopropyltoluene	0.780 U	2.00	0.780	ug/L							
sec-Butyl Benzene	0.800 U	2.00	0.800	ug/L							
Styrene	0.640 U	2.00	0.640	ug/L							
tert-Butyl Benzene	0.690 U	2.00	0.690	ug/L							
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L							
Toluene	0.580 U	2.00	0.580	ug/L							
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L							
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L							
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L							
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L							



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Batch: B401136 - Prep Method: 5030B

Blank (B401136-BLK1)					Prepared: 21-Jan-14 20:46		Analyzed: 21-Jan-14 20:46				
Vinyl Acetate	1.63 U	2.00	1.63	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							
Surrogate: 1,2-Dichloroethane-d4	49.7			ug/L	50.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	52.0			ug/L	50.0		104	80-120			
Surrogate: Dibromofluoromethane	50.8			ug/L	50.0		102	80-120			
Surrogate: Toluene-d8	49.4			ug/L	50.0		99	80-120			
LCS (B401136-BS1)					Prepared: 21-Jan-14 21:15		Analyzed: 21-Jan-14 21:15				
1,1,1,2-Tetrachloroethane	38.4	1.30	0.700	ug/L	40.0		96	72-124			
1,1,1-Trichloroethane	40.5	2.00	0.600	ug/L	40.0		101	76-122			
1,1,2,2-Tetrachloroethane	37.8	0.500	0.410	ug/L	40.0		94	71-112			
1,1,2-Trichloroethane	38.1	2.00	0.330	ug/L	40.0		95	79-110			
1,1-Dichloroethane	39.1	2.00	0.250	ug/L	40.0		98	80-112			
1,1-Dichloroethene	38.8	2.00	1.14	ug/L	40.0		97	74-122			
1,1-Dichloropropene	41.4	2.00	0.800	ug/L	40.0		104	83-116			
1,2,3-Trichlorobenzene	38.3	2.00	0.720	ug/L	40.0		96	76-116			
1,2,3-Trichloropropane	36.9	0.500	0.320	ug/L	40.0		92	71-115			
1,2,4-Trichlorobenzene	38.8	2.00	0.760	ug/L	40.0		97	73-118			
1,2,4-Trimethylbenzene	42.6	2.00	0.690	ug/L	40.0		107	80-119			
1,2-Dibromo-3-Chloropropane	35.4	2.00	1.05	ug/L	40.0		88	43-135			
1,2-Dibromoethane (EDB)	39.0	2.00	0.290	ug/L	40.0		98	77-116			
1,2-Dichlorobenzene	40.2	2.00	0.470	ug/L	40.0		100	80-110			
1,2-Dichloroethane	37.8	2.00	0.380	ug/L	40.0		94	73-116			
1,2-Dichloropropane	39.0	2.00	0.410	ug/L	40.0		98	78-113			
1,3,5-Trimethylbenzene	42.0	2.00	0.640	ug/L	40.0		105	80-118			
1,3-Dichlorobenzene	39.8	2.00	0.490	ug/L	40.0		100	80-110			
1,3-Dichloropropane	38.1	4.00	0.300	ug/L	40.0		95	80-109			
1,4-Dichlorobenzene	38.8	2.00	0.490	ug/L	40.0		97	78-107			
2,2-Dichloropropane	43.6	7.00	0.770	ug/L	40.0		109	51-138			
2-Butanone (MEK)	80.0	20.0	5.00	ug/L	100		80	57-129			
2-Chloroethyl Vinyl Ether	75.6	5.00	1.61	ug/L	100		76	45-145			
2-Chlorotoluene	41.1	2.00	0.450	ug/L	40.0		103	78-113			
2-Hexanone	93.7	20.0	4.00	ug/L	100		94	58-135			
4-Chlorotoluene	41.2	2.00	0.500	ug/L	40.0		103	79-115			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS (B401136-BS1)					Prepared: 21-Jan-14 21:15		Analyzed: 21-Jan-14 21:15				
4-Methyl-2-Pentanone (MIBK)	98.7	20.0	4.00	ug/L	100		99	65-135			
Acetone	95.6	10.0	5.00	ug/L	100		96	55-127			
Benzene	40.2	1.00	0.450	ug/L	40.0		101	82-113			
Bromobenzene	39.5	2.00	0.410	ug/L	40.0		99	80-114			
Bromochloromethane	37.7	5.00	0.500	ug/L	40.0		94	81-115			
Bromodichloromethane	39.5	0.600	0.540	ug/L	40.0		99	76-117			
Bromoform	37.9	2.00	0.650	ug/L	40.0		95	64-126			
Bromomethane	35.1	5.00	2.00	ug/L	40.0		88	40-138			
Carbon Disulfide	39.5	2.00	0.800	ug/L	40.0		99	78-116			
Carbon Tetrachloride	40.6	2.00	0.700	ug/L	40.0		102	74-129			
Chlorobenzene	39.6	2.00	0.560	ug/L	40.0		99	79-112			
Chloroethane	38.2	2.00	1.17	ug/L	40.0		96	70-116			
Chloroform	37.5	2.00	1.00	ug/L	40.0		94	72-115			
Chloromethane	34.2	2.00	0.560	ug/L	40.0		85	71-117			
cis-1,2-Dichloroethene	39.8	5.00	0.500	ug/L	40.0		99	83-112			
cis-1,3-Dichloropropene	40.0	0.500	0.260	ug/L	40.0		100	78-120			
Dibromochloromethane	39.1	2.00	0.710	ug/L	40.0		98	72-122			
Dibromomethane	38.1	2.00	0.250	ug/L	40.0		95	77-115			
Dichlorodifluoromethane	39.6	2.00	0.930	ug/L	40.0		99	63-129			
Ethylbenzene	41.3	2.00	0.500	ug/L	40.0		103	82-116			
Hexachlorobutadiene	35.4	3.00	2.00	ug/L	40.0		88	68-117			
Iodomethane (Methyl Iodide)	29.1	20.0	12.2	ug/L	40.0		73	30-127			
Isopropylbenzene (Cumene)	42.4	2.00	0.760	ug/L	40.0		106	80-122			
m- & p-Xylenes	83.6	4.00	1.23	ug/L	80.0		104	81-120			
Methyl tert-Butyl Ether (MTBE)	39.2	3.00	0.250	ug/L	40.0		98	71-115			
Methylene Chloride	34.8	5.00	2.50	ug/L	40.0		87	73-119			
Naphthalene	40.2	5.00	1.36	ug/L	40.0		100	67-117			
n-Butyl Benzene	41.1	2.00	1.10	ug/L	40.0		103	78-121			
n-Propylbenzene	42.0	2.00	0.630	ug/L	40.0		105	79-117			
o-Xylene	41.7	2.00	0.660	ug/L	40.0		104	80-119			
p-Isopropyltoluene	40.7	2.00	0.780	ug/L	40.0		102	78-117			
sec-Butyl Benzene	41.9	2.00	0.800	ug/L	40.0		105	79-119			
Styrene	41.4	2.00	0.640	ug/L	40.0		104	83-121			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS (B401136-BS1)						Prepared: 21-Jan-14 21:15	Analyzed: 21-Jan-14 21:15				
tert-Butyl Benzene	42.2	2.00	0.690	ug/L	40.0		105	76-119			
Tetrachloroethene (PCE)	38.0	2.00	1.50	ug/L	40.0		95	62-140			
Toluene	39.9	2.00	0.580	ug/L	40.0		100	80-112			
trans-1,2-Dichloroethene	39.8	2.00	0.500	ug/L	40.0		100	81-114			
trans-1,3-Dichloropropene	38.3	2.00	0.450	ug/L	40.0		96	70-119			
Trichloroethene (TCE)	40.5	2.00	0.740	ug/L	40.0		101	80-115			
Trichlorofluoromethane	39.5	2.00	1.10	ug/L	40.0		99	66-135			
Vinyl Acetate	103	2.00	1.63	ug/L	100		103	56-135			
Vinyl Chloride	39.1	1.00	0.970	ug/L	40.0		98	72-122			
Surrogate: 1,2-Dichloroethane-d4	48.2			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.2			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.7			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	49.7			ug/L	50.0		99	80-120			
LCS Dup (B401136-BS1)						Prepared: 22-Jan-14 00:39	Analyzed: 22-Jan-14 00:39				
1,1,1,2-Tetrachloroethane	38.3	1.30	0.700	ug/L	40.0		96	72-124	0.4	20	
1,1,1-Trichloroethane	41.5	2.00	0.600	ug/L	40.0		104	76-122	2	20	
1,1,2,2-Tetrachloroethane	40.6	0.500	0.410	ug/L	40.0		101	71-112	7	20	
1,1,2-Trichloroethane	39.2	2.00	0.330	ug/L	40.0		98	79-110	3	20	
1,1-Dichloroethane	40.2	2.00	0.250	ug/L	40.0		101	80-112	3	20	
1,1-Dichloroethene	39.9	2.00	1.14	ug/L	40.0		100	74-122	3	20	
1,1-Dichloropropene	42.5	2.00	0.800	ug/L	40.0		106	83-116	3	20	
1,2,3-Trichlorobenzene	40.3	2.00	0.720	ug/L	40.0		101	76-116	5	20	
1,2,3-Trichloropropane	39.9	0.500	0.320	ug/L	40.0		100	71-115	8	20	
1,2,4-Trichlorobenzene	40.8	2.00	0.760	ug/L	40.0		102	73-118	5	20	
1,2,4-Trimethylbenzene	43.7	2.00	0.690	ug/L	40.0		109	80-119	2	20	
1,2-Dibromo-3-Chloropropane	38.2	2.00	1.05	ug/L	40.0		96	43-135	8	20	
1,2-Dibromoethane (EDB)	40.3	2.00	0.290	ug/L	40.0		101	77-116	3	20	
1,2-Dichlorobenzene	40.9	2.00	0.470	ug/L	40.0		102	80-110	2	20	
1,2-Dichloroethane	38.6	2.00	0.380	ug/L	40.0		96	73-116	2	20	
1,2-Dichloropropane	39.7	2.00	0.410	ug/L	40.0		99	78-113	2	20	
1,3,5-Trimethylbenzene	42.8	2.00	0.640	ug/L	40.0		107	80-118	2	20	
1,3-Dichlorobenzene	40.6	2.00	0.490	ug/L	40.0		102	80-110	2	20	
1,3-Dichloropropane	38.7	4.00	0.300	ug/L	40.0		97	80-109	2	20	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B401136 - Prep Method: 5030B											
LCS Dup (B401136-BS01)					Prepared: 22-Jan-14 00:39		Analyzed: 22-Jan-14 00:39				
1,4-Dichlorobenzene	39.2	2.00	0.490	ug/L	40.0		98	78-107	0.9	20	
2,2-Dichloropropane	42.9	7.00	0.770	ug/L	40.0		107	51-138	2	20	
2-Butanone (MEK)	91.5	20.0	5.00	ug/L	100		92	57-129	13	20	
2-Chloroethyl Vinyl Ether	100	5.00	1.61	ug/L	100		100	45-145	28	30	
2-Chlorotoluene	41.4	2.00	0.450	ug/L	40.0		103	78-113	0.7	20	
2-Hexanone	103	20.0	4.00	ug/L	100		103	58-135	9	20	
4-Chlorotoluene	41.6	2.00	0.500	ug/L	40.0		104	79-115	0.9	20	
4-Methyl-2-Pentanone (MIBK)	110	20.0	4.00	ug/L	100		110	65-135	11	20	
Acetone	103	10.0	5.00	ug/L	100		103	55-127	8	20	
Benzene	41.1	1.00	0.450	ug/L	40.0		103	82-113	2	20	
Bromobenzene	39.7	2.00	0.410	ug/L	40.0		99	80-114	0.4	20	
Bromochloromethane	39.2	5.00	0.500	ug/L	40.0		98	81-115	4	20	
Bromodichloromethane	39.3	0.600	0.540	ug/L	40.0		98	76-117	0.5	20	
Bromoform	37.6	2.00	0.650	ug/L	40.0		94	64-126	0.7	20	
Bromomethane	14.4	5.00	2.00	ug/L	40.0		36	40-138	84	20	J2
Carbon Disulfide	40.8	2.00	0.800	ug/L	40.0		102	78-116	3	20	
Carbon Tetrachloride	41.1	2.00	0.700	ug/L	40.0		103	74-129	1	20	
Chlorobenzene	40.0	2.00	0.560	ug/L	40.0		100	79-112	1	20	
Chloroethane	38.3	2.00	1.17	ug/L	40.0		96	70-116	0.1	20	
Chloroform	38.2	2.00	1.00	ug/L	40.0		95	72-115	2	20	
Chloromethane	30.2	2.00	0.560	ug/L	40.0		75	71-117	12	20	
cis-1,2-Dichloroethene	40.0	5.00	0.500	ug/L	40.0		100	83-112	0.7	20	
cis-1,3-Dichloropropene	40.0	0.500	0.260	ug/L	40.0		100	78-120	0.03	20	
Dibromochloromethane	39.7	2.00	0.710	ug/L	40.0		99	72-122	2	20	
Dibromomethane	39.3	2.00	0.250	ug/L	40.0		98	77-115	3	20	
Dichlorodifluoromethane	39.8	2.00	0.930	ug/L	40.0		99	63-129	0.5	20	
Ethylbenzene	41.8	2.00	0.500	ug/L	40.0		105	82-116	1	20	
Hexachlorobutadiene	36.7	3.00	2.00	ug/L	40.0		92	68-117	4	20	
Iodomethane (Methyl Iodide)	17.3	20.0	12.2	ug/L	40.0		43	30-127	51	30	I, J2
Isopropylbenzene (Cumene)	43.0	2.00	0.760	ug/L	40.0		107	80-122	1	20	
m- & p-Xylenes	84.0	4.00	1.23	ug/L	80.0		105	81-120	0.4	20	
Methyl tert-Butyl Ether (MTBE)	41.5	3.00	0.250	ug/L	40.0		104	71-115	6	20	
Methylene Chloride	35.5	5.00	2.50	ug/L	40.0		89	73-119	2	20	



NELAP Certificate No. E84880



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8260C - VOC/FULL - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401136 - Prep Method: 5030B

LCS Dup (B401136-BS01)					Prepared: 22-Jan-14 00:39		Analyzed: 22-Jan-14 00:39				
Naphthalene	43.5	5.00	1.36	ug/L	40.0		109	67-117	8	20	
n-Butyl Benzene	42.2	2.00	1.10	ug/L	40.0		106	78-121	3	20	
n-Propylbenzene	42.8	2.00	0.630	ug/L	40.0		107	79-117	2	20	
o-Xylene	42.4	2.00	0.660	ug/L	40.0		106	80-119	2	20	
p-Isopropyltoluene	41.7	2.00	0.780	ug/L	40.0		104	78-117	2	20	
sec-Butyl Benzene	42.6	2.00	0.800	ug/L	40.0		107	79-119	2	20	
Styrene	42.0	2.00	0.640	ug/L	40.0		105	83-121	1	20	
tert-Butyl Benzene	43.4	2.00	0.690	ug/L	40.0		108	76-119	3	20	
Tetrachloroethene (PCE)	38.7	2.00	1.50	ug/L	40.0		97	62-140	2	20	
Toluene	40.5	2.00	0.580	ug/L	40.0		101	80-112	1	20	
trans-1,2-Dichloroethene	40.1	2.00	0.500	ug/L	40.0		100	81-114	0.8	20	
trans-1,3-Dichloropropene	38.1	2.00	0.450	ug/L	40.0		95	70-119	0.6	20	
Trichloroethene (TCE)	41.6	2.00	0.740	ug/L	40.0		104	80-115	3	20	
Trichlorofluoromethane	39.9	2.00	1.10	ug/L	40.0		100	66-135	1	20	
Vinyl Acetate	109	2.00	1.63	ug/L	100		109	56-135	5	20	
Vinyl Chloride	36.9	1.00	0.970	ug/L	40.0		92	72-122	6	20	
Surrogate: 1,2-Dichloroethane-d4	48.1			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	49.4			ug/L	50.0		99	80-120			
Surrogate: Dibromofluoromethane	49.7			ug/L	50.0		99	80-120			
Surrogate: Toluene-d8	49.4			ug/L	50.0		99	80-120			



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
1,2,4,5-Tetrachlorobenzene	1.32 U	5.00	1.32	ug/L							
1,2,4-Trichlorobenzene	1.09 U	5.00	1.09	ug/L							
1,2-Dichlorobenzene	0.665 U	5.00	0.665	ug/L							
1,3-Dichlorobenzene	1.04 U	5.00	1.04	ug/L							
1,4-Dichlorobenzene	1.11 U	5.00	1.11	ug/L							
1-Chloronaphthalene	0.843 U	5.00	0.843	ug/L							
1-Methylnaphthalene	0.0530 U	1.00	0.0530	ug/L							
1-Naphthylamine	5.03 U	10.0	5.03	ug/L							
2,3,4,6-Tetrachlorophenol	1.52 U	4.50	1.52	ug/L							
2,4,5-Trichlorophenol	1.28 U	5.00	1.28	ug/L							
2,4,6-Trichlorophenol	1.82 U	5.00	1.82	ug/L							
2,4-Dichlorophenol	1.63 U	5.00	1.63	ug/L							
2,4-Dimethylphenol	1.02 U	5.00	1.02	ug/L							
2,4-Dinitrophenol	2.42 U	50.0	2.42	ug/L							
2,4-Dinitrotoluene	0.915 U	5.00	0.915	ug/L							
2,6-Dichlorophenol	1.23 U	5.00	1.23	ug/L							
2,6-Dinitrotoluene	0.911 U	5.00	0.911	ug/L							
2-Acetylaminofluorene	0.926 U	5.00	0.926	ug/L							
2-Chloronaphthalene	0.757 U	5.00	0.757	ug/L							
2-Chlorophenol	1.47 U	5.00	1.47	ug/L							
2-Methylnaphthalene	0.0610 U	1.00	0.0610	ug/L							
2-Methylphenol	0.534 U	5.00	0.534	ug/L							
2-Naphthylamine	2.37 U	10.0	2.37	ug/L							
2-Nitroaniline	0.892 U	20.0	0.892	ug/L							
2-Nitrophenol	1.73 U	20.0	1.73	ug/L							
3,3-Dichlorobenzidine	1.36 U	20.0	1.36	ug/L							
3/4-Methylphenol	1.84 U	5.00	1.84	ug/L							
3-Nitroaniline	1.26 U	5.00	1.26	ug/L							
4,6-Dinitro-2-Methylphenol	1.83 U	20.0	1.83	ug/L							
4-Aminobiphenyl	0.654 U	5.00	0.654	ug/L							
4-Bromophenyl-Phenylether	1.27 U	5.00	1.27	ug/L							
4-Chloro-3-Methylphenol	1.58 U	5.00	1.58	ug/L							
4-Chloroaniline	2.88 U	5.00	2.88	ug/L							



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD Limits	RPD RPD	Limit Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11				
4-Chlorophenyl-Phenylether	0.837 U	5.00	0.837	ug/L							
4-Dimethylaminoazobenzene	0.970 U	5.00	0.970	ug/L							
4-Nitroaniline	1.20 U	5.00	1.20	ug/L							
4-Nitrophenol	0.717 U	20.0	0.717	ug/L							
5-Nitro-o-Toluidine	1.55 U	5.00	1.55	ug/L							
Acenaphthene	0.0640 U	1.00	0.0640	ug/L							
Acenaphthylene	0.0590 U	1.00	0.0590	ug/L							
Aniline	3.70 U	4.00	3.70	ug/L							
Anthracene	0.0670 U	0.300	0.0670	ug/L							
Azobenzene	0.785 U	1.00	0.785	ug/L							
Benzidine	5.70 U	50.0	5.70	ug/L							
Benzo(a)anthracene	0.105 U	0.200	0.105	ug/L							
Benzo(a)pyrene	0.0790 U	0.100	0.0790	ug/L							
Benzo(b)fluoranthene	0.0820 U	0.100	0.0820	ug/L							
Benzo(g,h,i)perylene	0.0610 U	0.200	0.0610	ug/L							
Benzo(k)fluoranthene	0.0770 U	0.100	0.0770	ug/L							
Benzyl alcohol	0.386 U	5.00	0.386	ug/L							
bis(2-Chloroethoxy)methane	0.571 U	5.00	0.571	ug/L							
Bis(2-Chloroethyl)ether	0.827 U	5.00	0.827	ug/L							
Bis(2-chloroisopropyl)ether	1.76 U	5.00	1.76	ug/L							
Bis(2-Ethylhexyl)phthalate	1.12 U	5.00	1.12	ug/L							
Butylbenzylphthalate	0.666 U	5.00	0.666	ug/L							
Carbazole	0.521 U	5.00	0.521	ug/L							
Chrysene	0.135 U	0.200	0.135	ug/L							
Dibenzo(a,h)anthracene	0.0680 U	0.200	0.0680	ug/L							
Dibenzofuran	0.716 U	5.00	0.716	ug/L							
Diethylphthalate	0.795 U	5.00	0.795	ug/L							
Dimethylphthalate	0.617 U	5.00	0.617	ug/L							
Di-n-Butyl Phthalate	0.640 U	5.00	0.640	ug/L							
Di-n-Octyl Phthalate	0.640 U	5.00	0.640	ug/L							
Fluoranthene	0.0910 U	0.300	0.0910	ug/L							
Fluorene	0.0660 U	1.00	0.0660	ug/L							
Hexachlorobenzene	1.09 U	1.50	1.09	ug/L							



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Blank (B401120-BLK1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:11			
Hexachlorobutadiene	1.04 U	5.00	1.04	ug/L						
Hexachlorocyclopentadiene	0.454 U	3.00	0.454	ug/L						
Hexachloroethane	1.53 U	5.00	1.53	ug/L						
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L						
Isophorone	1.00 U	5.00	1.00	ug/L						
Naphthalene	0.0640 U	1.00	0.0640	ug/L						
Nitrobenzene	0.746 U	3.50	0.746	ug/L						
o-Toluidine	3.32 U	5.00	3.32	ug/L						
N-Nitrosodiethylamine	0.830 U	10.0	0.830	ug/L						
N-Nitrosodimethylamine	0.661 U	10.0	0.661	ug/L						
N-Nitrosodi-n-butylamine	1.28 U	5.00	1.28	ug/L						
N-Nitroso-di-n-propylamine	0.964 U	5.00	0.964	ug/L						
N-Nitrosodiphenylamine	0.484 U	5.00	0.484	ug/L						
N-Nitrosomethylethylamine	0.867 U	10.0	0.867	ug/L						
N-Nitrosomorpholine	0.840 U	5.00	0.840	ug/L						
N-Nitrosopiperidine	1.16 U	5.00	1.16	ug/L						
N-Nitrosopyrrolidine	0.560 U	5.00	0.560	ug/L						
Pentachloronitrobenzene	0.877 U	2.00	0.877	ug/L						
Pentachlorophenol	1.72 U	20.0	1.72	ug/L						
Phenanthrene	0.0780 U	0.200	0.0780	ug/L						
Phenol	0.796 U	6.50	0.796	ug/L						
Pyrene	0.0930 U	0.300	0.0930	ug/L						
Pyridine	0.689 U	5.00	0.689	ug/L						
Surrogate: 2,4,6-Tribromophenol	30.9			ug/L	50.0		62	15-122		
Surrogate: 2-Fluorobiphenyl	15.6			ug/L	25.0		63	49-100		
Surrogate: 2-Fluorophenol	11.9			ug/L	50.0		24	1-100		
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106		
Surrogate: Phenol-d5	7.93			ug/L	50.0		16	2-100		
Surrogate: Terphenyl-d14	19.9			ug/L	25.0		80	56-108		



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Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

LCS (B401120-BS1)					Prepared: 21-Jan-14 10:42		Analyzed: 22-Jan-14 11:47	
1,2,4-Trichlorobenzene	60.5	5.00	1.09	ug/L	100	60	20-109	
1,4-Dichlorobenzene	57.2	5.00	1.11	ug/L	100	57	19-101	
1-Methylnaphthalene	6.34	1.00	0.0530	ug/L	10.0	63	30-102	
2,4-Dinitrotoluene	61.2	5.00	0.915	ug/L	100	61	47-109	
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	47	19-100	
2-Methylnaphthalene	7.17	1.00	0.0610	ug/L	10.0	72	28-106	
4-Chloro-3-Methylphenol	83.7	5.00	1.58	ug/L	150	56	25-103	
4-Nitrophenol	16.3	20.0	0.717	ug/L	150	11	9-100	
Acenaphthene	71.8	1.00	0.0640	ug/L	110	65	30-100	
Acenaphthylene	7.22	1.00	0.0590	ug/L	10.0	72	32-103	
Anthracene	6.97	0.300	0.0670	ug/L	10.0	70	38-116	
Benzo(a)anthracene	6.98	0.200	0.105	ug/L	10.0	70	37-110	
Benzo(a)pyrene	6.39	0.100	0.0790	ug/L	10.0	64	44-119	
Benzo(b)fluoranthene	5.58	0.100	0.0820	ug/L	10.0	56	34-115	
Benzo(g,h,i)perylene	5.79	0.200	0.0610	ug/L	10.0	58	43-117	
Benzo(k)fluoranthene	7.00	0.100	0.0770	ug/L	10.0	70	43-118	
Chrysene	8.05	0.200	0.135	ug/L	10.0	80	44-125	
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	61	40-116	
Fluoranthene	6.79	0.300	0.0910	ug/L	10.0	68	39-114	
Fluorene	6.68	1.00	0.0660	ug/L	10.0	67	39-104	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	60	50-103	
Naphthalene	6.80	1.00	0.0640	ug/L	10.0	68	9-135	
N-Nitroso-di-n-propylamine	66.6	5.00	0.964	ug/L	100	67	24-117	
Pentachlorophenol	89.8	20.0	1.72	ug/L	150	60	39-103	
Phenanthrene	7.09	0.200	0.0780	ug/L	10.0	71	42-113	
Phenol	21.1	6.50	0.796	ug/L	150	14	4-100	
Pyrene	81.0	0.300	0.0930	ug/L	110	74	38-133	
Surrogate: 2,4,6-Tribromophenol	29.5			ug/L	50.0	59	15-122	
Surrogate: 2-Fluorobiphenyl	15.1			ug/L	25.0	60	49-100	
Surrogate: 2-Fluorophenol	10.6			ug/L	50.0	21	1-100	
Surrogate: Nitrobenzene-d5	13.8			ug/L	25.0	55	47-106	
Surrogate: Phenol-d5	6.64			ug/L	50.0	13	2-100	
Surrogate: Terphenyl-d14	18.2			ug/L	25.0	73	56-108	



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike (B401120-MS1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:22				
1,2,4-Trichlorobenzene	63.8	5.00	1.09	ug/L	100	1.09 U	64	46-92			
1,4-Dichlorobenzene	61.7	5.00	1.11	ug/L	100	1.11 U	62	37-100			
1-Methylnaphthalene	6.89	1.00	0.0530	ug/L	10.0	0.0530 U	69	54-100			
2,4-Dinitrotoluene	63.7	5.00	0.915	ug/L	100	0.915 U	64	66-100			J2
2-Chlorophenol	71.5	5.00	1.47	ug/L	150	1.47 U	48	33-100			
2-Methylnaphthalene	7.35	1.00	0.0610	ug/L	10.0	0.0610 U	74	51-100			
4-Chloro-3-Methylphenol	88.1	5.00	1.58	ug/L	150	1.58 U	59	51-100			
4-Nitrophenol	7.41	20.0	0.717	ug/L	150	0.717 U	5	13-100			I, J2
Acenaphthene	75.6	1.00	0.0640	ug/L	110	0.0640 U	69	62-100			
Acenaphthylene	7.82	1.00	0.0590	ug/L	10.0	0.0590 U	78	57-100			
Anthracene	7.29	0.300	0.0670	ug/L	10.0	0.0670 U	73	64-100			
Benzo(a)anthracene	7.09	0.200	0.105	ug/L	10.0	0.105 U	71	65-100			
Benzo(a)pyrene	6.34	0.100	0.0790	ug/L	10.0	0.0790 U	63	72-100			J2
Benzo(b)fluoranthene	5.96	0.100	0.0820	ug/L	10.0	0.0820 U	60	63-100			J2
Benzo(g,h,i)perylene	6.14	0.200	0.0610	ug/L	10.0	0.0610 U	61	64-102			J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113			
Chrysene	8.13	0.200	0.135	ug/L	10.0	0.135 U	81	67-100			
Dibenzo(a,h)anthracene	6.06	0.200	0.0680	ug/L	10.0	0.0680 U	61	64-100			J2
Fluoranthene	6.94	0.300	0.0910	ug/L	10.0	0.0910 U	69	68-100			
Fluorene	7.16	1.00	0.0660	ug/L	10.0	0.0660 U	72	62-100			
Indeno(1,2,3-cd)pyrene	5.88	0.200	0.0130	ug/L	10.0	0.0130 U	59	52-100			
Naphthalene	7.25	1.00	0.0640	ug/L	10.0	0.0640 U	72	24-100			
N-Nitroso-di-n-propylamine	68.1	5.00	0.964	ug/L	100	0.964 U	68	50-100			
Pentachlorophenol	57.0	20.0	1.72	ug/L	150	1.72 U	38	64-100			J2
Phenanthrene	7.44	0.200	0.0780	ug/L	10.0	0.0780 U	74	68-100			
Phenol	24.9	6.50	0.796	ug/L	150	0.796 U	17	7-100			
Pyrene	83.3	0.300	0.0930	ug/L	110	0.0930 U	76	68-100			
Surrogate: 2,4,6-Tribromophenol	28.1			ug/L	50.0		56	15-122			
Surrogate: 2-Fluorobiphenyl	17.1			ug/L	25.0		69	49-100			
Surrogate: 2-Fluorophenol	11.7			ug/L	50.0		23	1-100			
Surrogate: Nitrobenzene-d5	15.4			ug/L	25.0		62	47-106			
Surrogate: Phenol-d5	8.09			ug/L	50.0		16	2-100			
Surrogate: Terphenyl-d14	19.5			ug/L	25.0		78	56-108			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8270D - BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401120 - Prep Method: 3510C

Matrix Spike Dup (B401120-MSD1)	Source: 1312115-02			Prepared: 21-Jan-14 10:42			Analyzed: 22-Jan-14 12:58				
1,2,4-Trichlorobenzene	63.3	5.00	1.09	ug/L	100	1.09 U	63	46-92	0.8	25	
1,4-Dichlorobenzene	61.8	5.00	1.11	ug/L	100	1.11 U	62	37-100	0.2	25	
1-Methylnaphthalene	6.52	1.00	0.0530	ug/L	10.0	0.0530 U	65	54-100	6	25	
2,4-Dinitrotoluene	63.4	5.00	0.915	ug/L	100	0.915 U	63	66-100	0.4	25	J2
2-Chlorophenol	70.8	5.00	1.47	ug/L	150	1.47 U	47	33-100	1	25	
2-Methylnaphthalene	6.94	1.00	0.0610	ug/L	10.0	0.0610 U	69	51-100	6	25	
4-Chloro-3-Methylphenol	85.8	5.00	1.58	ug/L	150	1.58 U	57	51-100	3	25	
4-Nitrophenol	8.00	20.0	0.717	ug/L	150	0.717 U	5	13-100	8	25	I, J2
Acenaphthene	75.4	1.00	0.0640	ug/L	110	0.0640 U	68	62-100	0.3	25	
Acenaphthylene	7.29	1.00	0.0590	ug/L	10.0	0.0590 U	73	57-100	7	25	
Anthracene	6.86	0.300	0.0670	ug/L	10.0	0.0670 U	69	64-100	6	25	
Benzo(a)anthracene	7.00	0.200	0.105	ug/L	10.0	0.105 U	70	65-100	1	25	
Benzo(a)pyrene	5.99	0.100	0.0790	ug/L	10.0	0.0790 U	60	72-100	6	25	J2
Benzo(b)fluoranthene	5.79	0.100	0.0820	ug/L	10.0	0.0820 U	58	63-100	3	25	J2
Benzo(g,h,i)perylene	6.03	0.200	0.0610	ug/L	10.0	0.0610 U	60	64-102	2	25	J2
Benzo(k)fluoranthene	6.82	0.100	0.0770	ug/L	10.0	0.0770 U	68	53-113	0	25	
Chrysene	7.71	0.200	0.135	ug/L	10.0	0.135 U	77	67-100	5	25	
Dibenzo(a,h)anthracene	5.94	0.200	0.0680	ug/L	10.0	0.0680 U	59	64-100	2	25	J2
Fluoranthene	6.77	0.300	0.0910	ug/L	10.0	0.0910 U	68	68-100	2	25	
Fluorene	6.53	1.00	0.0660	ug/L	10.0	0.0660 U	65	62-100	9	25	
Indeno(1,2,3-cd)pyrene	6.00	0.200	0.0130	ug/L	10.0	0.0130 U	60	52-100	2	25	
Naphthalene	6.73	1.00	0.0640	ug/L	10.0	0.0640 U	67	24-100	7	25	
N-Nitroso-di-n-propylamine	68.6	5.00	0.964	ug/L	100	0.964 U	69	50-100	0.8	25	
Pentachlorophenol	60.2	20.0	1.72	ug/L	150	1.72 U	40	64-100	6	25	J2
Phenanthrene	7.33	0.200	0.0780	ug/L	10.0	0.0780 U	73	68-100	1	25	
Phenol	24.8	6.50	0.796	ug/L	150	0.796 U	17	7-100	0.6	25	
Pyrene	80.9	0.300	0.0930	ug/L	110	0.0930 U	74	68-100	3	25	
Surrogate: 2,4,6-Tribromophenol	28.5			ug/L	50.0		57	15-122			
Surrogate: 2-Fluorobiphenyl	15.8			ug/L	25.0		63	49-100			
Surrogate: 2-Fluorophenol	11.2			ug/L	50.0		22	1-100			
Surrogate: Nitrobenzene-d5	14.8			ug/L	25.0		59	47-106			
Surrogate: Phenol-d5	7.66			ug/L	50.0		15	2-100			
Surrogate: Terphenyl-d14	18.9			ug/L	25.0		75	56-108			



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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Blank (B401118-BLK1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 22:40				
alpha-BHC	0.00200 U	0.0500	0.00200	ug/L							
beta-BHC	0.00200 U	0.0500	0.00200	ug/L							
gamma-BHC	0.00400 U	0.100	0.00400	ug/L							
delta-BHC	0.00300 U	0.0500	0.00300	ug/L							
Heptachlor	0.00300 U	0.0500	0.00300	ug/L							
Aldrin	0.00200 U	0.0500	0.00200	ug/L							
Heptachlor Epoxide	0.00200 U	0.0800	0.00200	ug/L							
gamma-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Endosulfan I	0.00200 U	0.100	0.00200	ug/L							
alpha-Chlordane	0.00300 U	0.800	0.00300	ug/L							
Dieldrin	0.00200 U	0.100	0.00200	ug/L							
4,4-DDE	0.00200 U	0.0800	0.00200	ug/L							
Endrin	0.00200 U	0.200	0.00200	ug/L							
Endosulfan II	0.00300 U	0.100	0.00300	ug/L							
4,4-DDD	0.00300 U	0.0800	0.00300	ug/L							
Endrin Aldehyde	0.00300 U	0.200	0.00300	ug/L							
Endosulfan Sulfate	0.00300 U	0.100	0.00300	ug/L							
4,4-DDT	0.00400 U	0.200	0.00400	ug/L							
Endrin Ketone	0.00200 U	0.200	0.00200	ug/L							
Methoxychlor	0.00400 U	0.200	0.00400	ug/L							
Chlordane	0.150 U	1.00	0.150	ug/L							
Toxaphene	0.520 U	1.00	0.520	ug/L							

Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0240			ug/L	0.0250		96	67-116			

LCS (B401118-BS1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:14				
alpha-BHC	0.0420	0.0500	0.00200	ug/L	0.0500		84	52-128			I
beta-BHC	0.0520	0.0500	0.00200	ug/L	0.0500		104	56-127			
gamma-BHC	0.0500	0.100	0.00400	ug/L	0.0500		100	45-140			I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500		90	46-142			I
Heptachlor	0.0520	0.0500	0.00300	ug/L	0.0500		104	48-147			
Aldrin	0.0430	0.0500	0.00200	ug/L	0.0500		86	50-121			I
Heptachlor Epoxide	0.0490	0.0800	0.00200	ug/L	0.0500		98	45-133			I
gamma-Chlordane	0.0470	0.800	0.00300	ug/L	0.0500		94	53-117			I



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Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

LCS (B401118-BS1)					Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:14			
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500		92	54-129		I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500		88	51-117		I
Dieldrin	0.0480	0.100	0.00200	ug/L	0.0500		96	48-137		I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500		96	48-127		I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500		96	54-140		I
Endosulfan II	0.0460	0.100	0.00300	ug/L	0.0500		92	45-138		I
4,4-DDD	0.0490	0.0800	0.00300	ug/L	0.0500		98	39-156		I
Endrin Aldehyde	0.0510	0.200	0.00300	ug/L	0.0500		102	47-141		I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500		96	49-141		I
4,4-DDT	0.0560	0.200	0.00400	ug/L	0.0500		112	38-162		I
Endrin Ketone	0.0490	0.200	0.00200	ug/L	0.0500		98	44-159		I
Methoxychlor	0.0620	0.200	0.00400	ug/L	0.0500		124	45-164		I

Surrogate: TCMX	0.0180			ug/L	0.0250		72	51-116		
Surrogate: Decachlorobiphenyl	0.0230			ug/L	0.0250		92	67-116		

Matrix Spike (B401118-MS1)					Source: 1312115-02		Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:47	
alpha-BHC	0.0440	0.0500	0.00200	ug/L	0.0500	0.00200 U	88	51-108		I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117		I
gamma-BHC	0.0490	0.100	0.00400	ug/L	0.0500	0.00400 U	98	53-119		I
delta-BHC	0.0450	0.0500	0.00300	ug/L	0.0500	0.00300 U	90	51-126		I
Heptachlor	0.0490	0.0500	0.00300	ug/L	0.0500	0.00300 U	98	41-126		I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111		I
Heptachlor Epoxide	0.0470	0.0800	0.00200	ug/L	0.0500	0.00200 U	94	56-116		I
gamma-Chlordane	0.0460	0.800	0.00300	ug/L	0.0500	0.00300 U	92	57-116		I
Endosulfan I	0.0440	0.100	0.00200	ug/L	0.0500	0.00200 U	88	58-113		I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118		I
Dieldrin	0.0450	0.100	0.00200	ug/L	0.0500	0.00200 U	90	59-120		I
4,4-DDE	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	58-121		I
Endrin	0.0460	0.200	0.00200	ug/L	0.0500	0.00200 U	92	57-125		I
Endosulfan II	0.0470	0.100	0.00300	ug/L	0.0500	0.00300 U	94	59-121		I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123		I
Endrin Aldehyde	0.0500	0.200	0.00300	ug/L	0.0500	0.00300 U	100	56-120		I
Endosulfan Sulfate	0.0490	0.100	0.00300	ug/L	0.0500	0.00300 U	98	53-133		I
4,4-DDT	0.0570	0.200	0.00400	ug/L	0.0500	0.00400 U	114	47-132		I



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8081B - Organochlorine Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401118 - Prep Method: 3510C

Matrix Spike (B401118-MS1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 21-Jan-14 23:47				
Endrin Ketone	0.0450	0.200	0.00200	ug/L	0.0500	0.00200 U	90	50-140			I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137			I
Surrogate: TCMX	0.0190			ug/L	0.0250		76	51-116			
Surrogate: Decachlorobiphenyl	0.0270			ug/L	0.0250		108	67-116			
Matrix Spike Dup (B401118-MSD1)		Source: 1312115-02			Prepared: 21-Jan-14 10:39		Analyzed: 22-Jan-14 00:21				
alpha-BHC	0.0430	0.0500	0.00200	ug/L	0.0500	0.00200 U	86	51-108	2	25	I
beta-BHC	0.0470	0.0500	0.00200	ug/L	0.0500	0.00200 U	94	53-117	0	25	I
gamma-BHC	0.0510	0.100	0.00400	ug/L	0.0500	0.00400 U	102	53-119	4	25	I
delta-BHC	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	51-126	6	25	I
Heptachlor	0.0480	0.0500	0.00300	ug/L	0.0500	0.00300 U	96	41-126	2	25	I
Aldrin	0.0390	0.0500	0.00200	ug/L	0.0500	0.00200 U	78	56-111	0	25	I
Heptachlor Epoxide	0.0480	0.0800	0.00200	ug/L	0.0500	0.00200 U	96	56-116	2	25	I
gamma-Chlordane	0.0450	0.800	0.00300	ug/L	0.0500	0.00300 U	90	57-116	2	25	I
Endosulfan I	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	58-113	4	25	I
alpha-Chlordane	0.0440	0.800	0.00300	ug/L	0.0500	0.00300 U	88	56-118	0	25	I
Dieldrin	0.0460	0.100	0.00200	ug/L	0.0500	0.00200 U	92	59-120	2	25	I
4,4-DDE	0.0440	0.0800	0.00200	ug/L	0.0500	0.00200 U	88	58-121	9	25	I
Endrin	0.0480	0.200	0.00200	ug/L	0.0500	0.00200 U	96	57-125	4	25	I
Endosulfan II	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	59-121	2	25	I
4,4-DDD	0.0470	0.0800	0.00300	ug/L	0.0500	0.00300 U	94	60-123	0	25	I
Endrin Aldehyde	0.0530	0.200	0.00300	ug/L	0.0500	0.00300 U	106	56-120	6	25	I
Endosulfan Sulfate	0.0480	0.100	0.00300	ug/L	0.0500	0.00300 U	96	53-133	2	25	I
4,4-DDT	0.0550	0.200	0.00400	ug/L	0.0500	0.00400 U	110	47-132	4	25	I
Endrin Ketone	0.0500	0.200	0.00200	ug/L	0.0500	0.00200 U	100	50-140	11	25	I
Methoxychlor	0.0640	0.200	0.00400	ug/L	0.0500	0.00400 U	128	53-137	0	25	I
Surrogate: TCMX	0.0200			ug/L	0.0250		80	51-116			
Surrogate: Decachlorobiphenyl	0.0260			ug/L	0.0250		104	67-116			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 8082A - Polychlorinated Biphenyls - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B401119 - Prep Method: 3510C											
Blank (B401119-BLK1)					Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:00			
PCB 1016	0.163 U	0.500	0.163	ug/L							
PCB 1221	0.108 U	0.500	0.108	ug/L							
PCB 1232	0.141 U	0.500	0.141	ug/L							
PCB 1242	0.191 U	0.500	0.191	ug/L							
PCB 1248	0.133 U	0.500	0.133	ug/L							
PCB 1254	0.0950 U	0.500	0.0950	ug/L							
PCB 1260	0.144 U	0.500	0.144	ug/L							
Surrogate: Decachlorobiphenyl	0.644			ug/L	1.00		64	26-105			
LCS (B401119-BS1)					Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 20:32			
PCB 1016	4.25	0.500	0.163	ug/L	5.00		85	55-113			
PCB 1260	4.54	0.500	0.144	ug/L	5.00		91	66-103			
Surrogate: Decachlorobiphenyl	0.540			ug/L	1.00		54	26-105			
Matrix Spike (B401119-MS1)		Source: 1312115-02			Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:03			
PCB 1016	4.76	0.500	0.163	ug/L	5.00	0.163 U	95	55-113			
PCB 1260	4.66	0.500	0.144	ug/L	5.00	0.144 U	93	66-103			
Surrogate: Decachlorobiphenyl	0.415			ug/L	1.00		42	26-105			
Matrix Spike Dup (B401119-MSD1)		Source: 1312115-02			Prepared: 21-Jan-14 10:41			Analyzed: 22-Jan-14 21:34			
PCB 1016	4.64	0.500	0.163	ug/L	5.00	0.163 U	93	55-113	3	25	
PCB 1260	4.73	0.500	0.144	ug/L	5.00	0.144 U	95	66-103	1	25	
Surrogate: Decachlorobiphenyl	0.461			ug/L	1.00		46	26-105			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401095 - Prep Method: 3510C

Blank (B401095-BLK1)				Prepared: 17-Jan-14 14:31			Analyzed: 18-Jan-14 09:44				
FL-PRO (C8-C40)	171 U	400	171	ug/L							
<i>Surrogate: o-Terphenyl</i>	76.0			ug/L	100		76	82-142			J2
<i>Surrogate: n-Nonatriacontane</i>	528			ug/L	600		88	42-193			
LCS (B401095-BS1)				Prepared: 17-Jan-14 14:31			Analyzed: 18-Jan-14 10:19				
FL-PRO (C8-C40)	1200	400	171	ug/L	1410		85	55-118			
<i>Surrogate: o-Terphenyl</i>	79.0			ug/L	100		79	82-142			J2
<i>Surrogate: n-Nonatriacontane</i>	501			ug/L	600		84	42-193			
Matrix Spike (B401095-MS1)				Source: 1311125-07			Prepared: 17-Jan-14 14:31				
FL-PRO (C8-C40)	4860	400	171	ug/L	1410	4660	14	41-101			J2
<i>Surrogate: o-Terphenyl</i>	71.0			ug/L	100		71	82-142			J2
<i>Surrogate: n-Nonatriacontane</i>	468			ug/L	600		78	42-193			
Matrix Spike Dup (B401095-MSD1)				Source: 1311125-07			Prepared: 17-Jan-14 14:31				
FL-PRO (C8-C40)	4760	400	171	ug/L	1410	4660	7	41-101	2	20	J2
<i>Surrogate: o-Terphenyl</i>	72.0			ug/L	100		72	82-142			J2
<i>Surrogate: n-Nonatriacontane</i>	490			ug/L	600		82	42-193			



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401107 - Prep Method: 3010A

Blank (B401107-BLK1)					Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:31			
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401107-BS1)					Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:35			
Arsenic	497	10.0	4.00	ug/L	500		99	80-120			
Cadmium	497	5.00	1.00	ug/L	500		99	80-120			
Chromium	489	10.0	4.00	ug/L	500		98	80-120			
Lead	494	10.0	4.00	ug/L	500		99	80-120			
LCS Dup (B401107-BSD1)					Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:38			
Arsenic	495	10.0	4.00	ug/L	500		99	80-120	0.4	20	
Cadmium	495	5.00	1.00	ug/L	500		99	80-120	0.4	20	
Chromium	490	10.0	4.00	ug/L	500		98	80-120	0.3	20	
Lead	489	10.0	4.00	ug/L	500		98	80-120	1	20	
Matrix Spike (B401107-MS1)					Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:41
Arsenic	541	10.0	4.00	ug/L	500	6.00	107	75-125			
Cadmium	493	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125			
Lead	472	10.0	4.00	ug/L	500	4.00 U	94	75-125			
Matrix Spike Dup (B401107-MSD1)					Source: 1312092-01			Prepared: 20-Jan-14 14:06			Analyzed: 22-Jan-14 13:44
Arsenic	540	10.0	4.00	ug/L	500	6.00	107	75-125	0.2	20	
Cadmium	496	5.00	1.00	ug/L	500	1.00 U	99	75-125	0.5	20	
Chromium	496	10.0	4.00	ug/L	500	4.00 U	99	75-125	0.02	20	
Lead	476	10.0	4.00	ug/L	500	4.00 U	95	75-125	0.8	20	



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Tampa, FL 33619

Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401109 - Prep Method: 3010A

Blank (B401109-BLK1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:32				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B401109-BS1)				Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:35				
Arsenic	487	10.0	4.00	ug/L	500		97	80-120			
Cadmium	491	5.00	1.00	ug/L	500		98	80-120			
Chromium	482	10.0	4.00	ug/L	500		96	80-120			
Lead	490	10.0	4.00	ug/L	500		98	80-120			
Matrix Spike (B401109-MS1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:41	
Arsenic	517	10.0	4.00	ug/L	500	8.80	102	75-125			
Cadmium	446	5.00	1.00	ug/L	500	1.00 U	89	75-125			
Chromium	484	10.0	4.00	ug/L	500	4.00 U	97	75-125			
Lead	408	10.0	4.00	ug/L	500	4.00 U	82	75-125			
Matrix Spike Dup (B401109-MSD1)				Source: 1312092-01			Prepared: 20-Jan-14 14:32			Analyzed: 21-Jan-14 12:45	
Arsenic	519	10.0	4.00	ug/L	500	8.80	102	75-125	0.4	20	
Cadmium	452	5.00	1.00	ug/L	500	1.00 U	90	75-125	1	20	
Chromium	480	10.0	4.00	ug/L	500	4.00 U	96	75-125	0.8	20	
Lead	415	10.0	4.00	ug/L	500	4.00 U	83	75-125	2	20	



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725 U.S. Highway 301 South
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Project Name: SR679 Pinellas Bayway Structure E
Project Number: 150929
Project Location: Site 4: Texaco - Tierra Verde Marina/BP
Project Manager: Nathan Miller

Reported:
24-Jan-14 10:17
Lab Work Order (COC): 1312118

Notes and Definitions

J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
I	Result is between LOQ/PQL and LOD/MDL.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



NELAP Certificate No. E84880



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Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

27 May 2014
Lab Work Order (COC): 1405024

RE: SR 679
Project Location:
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **19-May-14 12:50**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-May-14 15:46
Lab Work Order (COC): 1405024

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-3	1405024-01	Ground Water	19-May-14 10:12	19-May-14 12:50



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-May-14 15:46
Lab Work Order (COC): 1405024

TW-3
1405024-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 27-May-14 08:11			
EPA Method 6010C - Metals by ICP					Analyzed: 27-May-14 12:16			
					Batch: B405183			
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
					Prepared: 21-May-14 16:59			
EPA Method 6010C - Metals by ICP (Lab-Filtered)					Analyzed: 21-May-14 18:34			
					Batch: B405164			
Arsenic	4.00 U	10.0	4.00	ug/L	1			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			



NELAP Certificate No. E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-May-14 15:46
Lab Work Order (COC): 1405024

EPA Method 6010C - Metals by ICP - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B405183 - Prep Method: 3010A											
Blank (B405183-BLK1)					Prepared: 27-May-14 08:11		Analyzed: 27-May-14 11:57				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B405183-BS1)					Prepared: 27-May-14 08:11		Analyzed: 27-May-14 12:00				
Arsenic	472	10.0	4.00	ug/L	500		94	80-120			
Cadmium	482	5.00	1.00	ug/L	500		96	80-120			
Chromium	484	10.0	4.00	ug/L	500		97	80-120			
Lead	483	10.0	4.00	ug/L	500		97	80-120			
LCS Dup (B405183-BSD1)					Prepared: 27-May-14 08:11		Analyzed: 27-May-14 12:03				
Arsenic	470	10.0	4.00	ug/L	500		94	80-120	0.3	20	
Cadmium	480	5.00	1.00	ug/L	500		96	80-120	0.4	20	
Chromium	481	10.0	4.00	ug/L	500		96	80-120	0.7	20	
Lead	481	10.0	4.00	ug/L	500		96	80-120	0.5	20	
Matrix Spike (B405183-MS1)					Source: 1405024-01		Prepared: 27-May-14 08:11		Analyzed: 27-May-14 12:06		
Arsenic	526	10.0	4.00	ug/L	500	4.00 U	105	75-125			
Cadmium	497	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	501	10.0	4.00	ug/L	500	4.00 U	100	75-125			
Lead	484	10.0	4.00	ug/L	500	4.00 U	97	75-125			
Matrix Spike Dup (B405183-MSD1)					Source: 1405024-01		Prepared: 27-May-14 08:11		Analyzed: 27-May-14 12:10		
Arsenic	529	10.0	4.00	ug/L	500	4.00 U	106	75-125	0.6	20	
Cadmium	496	5.00	1.00	ug/L	500	1.00 U	99	75-125	0.04	20	
Chromium	502	10.0	4.00	ug/L	500	4.00 U	100	75-125	0.2	20	
Lead	485	10.0	4.00	ug/L	500	4.00 U	97	75-125	0.2	20	



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-May-14 15:46
Lab Work Order (COC): 1405024

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
---------	--------	-----	-----	-------	-------------	---------------	------	-------------	-----	-----------	------------

Batch: B405164 - Prep Method: 3010A

Blank (B405164-BLK1)					Prepared: 21-May-14 16:59		Analyzed: 21-May-14 18:19				
Arsenic	4.00 U	10.0	4.00	ug/L							
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
LCS (B405164-BS1)					Prepared: 21-May-14 16:59		Analyzed: 21-May-14 18:22				
Arsenic	477	10.0	4.00	ug/L	500		95	80-120			
Cadmium	479	5.00	1.00	ug/L	500		96	80-120			
Chromium	489	10.0	4.00	ug/L	500		98	80-120			
Lead	483	10.0	4.00	ug/L	500		97	80-120			
LCS Dup (B405164-BSD1)					Prepared: 21-May-14 16:59		Analyzed: 21-May-14 18:25				
Arsenic	478	10.0	4.00	ug/L	500		96	80-120	0.1	20	
Cadmium	478	5.00	1.00	ug/L	500		96	80-120	0.3	20	
Chromium	484	10.0	4.00	ug/L	500		97	80-120	1	20	
Lead	479	10.0	4.00	ug/L	500		96	80-120	0.7	20	
Matrix Spike (B405164-MS1)					Source: 1405056-01		Prepared: 21-May-14 16:59		Analyzed: 21-May-14 18:28		
Arsenic	524	10.0	4.00	ug/L	500	10.2	103	75-125			
Cadmium	495	5.00	1.00	ug/L	500	1.00 U	99	75-125			
Chromium	452	10.0	4.00	ug/L	500	4.00 U	90	75-125			
Lead	462	10.0	4.00	ug/L	500	4.00 U	92	75-125			
Matrix Spike Dup (B405164-MSD1)					Source: 1405056-01		Prepared: 21-May-14 16:59		Analyzed: 21-May-14 18:31		
Arsenic	524	10.0	4.00	ug/L	500	10.2	103	75-125	0.02	20	
Cadmium	500	5.00	1.00	ug/L	500	1.00 U	100	75-125	0.9	20	
Chromium	446	10.0	4.00	ug/L	500	4.00 U	89	75-125	1	20	
Lead	462	10.0	4.00	ug/L	500	4.00 U	92	75-125	0.09	20	



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-May-14 15:46
Lab Work Order (COC): 1405024

Notes and Definitions

DET Analyte DETECTED
U Analyte NOT DETECTED at or above the MDL
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit
MDL Method Detection Limit
MRL Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

January 28, 2014

Mark Alessandroni
Lakeland Laboratories, LLC
1910 Harden Blvd. Ste 101
Lakeland, FL 33803-1829
TEL: 863-686-4271
FAX: 863-686-4389

RE: SR 679

Order No.: 14011566

Dear Mark Alessandroni:

Summit Environmental Technologies, Inc. received 1 sample(s) on 1/23/2014 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Dr. Mo Osman
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

CC:
Mark Alessandroni

A2LA 0724.01, Alabama 41600, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder Sample Summary

WO#: 14011566

28-Jan-14

CLIENT: Lakeland Laboratories, LLC

Project: SR 679

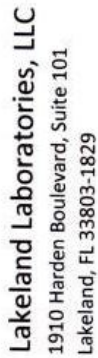
Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
14011566-001	1311138-01		1/21/2014 11:17:00 AM	1/23/2014 10:25:00 AM	Non-Potable Water



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

WO#: 14011566
Date Reported: 1/28/2014
Company: Lakeland Laboratories, LLC
Address: 1910 Harden Blvd. Ste 101
Lakeland FL 33803-1829
Received: 1/23/2014
Project#: SR 679

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Qual	Matrix	Method	DF	LOD	LOQ	Run	Analyst
1311138-01	001	1/21/2014	Mercury	1.68	ng/L		Non-Potable Water	EPA 1631 E	1	0.400	0.500	1/24/2014	SG



Lab Work Order Number: 13111138

[illegible]

Containers:	
H2SO4=pH<2 w/ H2SO4+Store 4°C, HNO3=pH<2 w/ HNO3+Store 4°C, ICE+=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace, Sub=Subcontract (see bottle for preservative)	

February 05, 2014

Mr. Mark Alessandroni
Lakeland Laboratory
1910 Harden Blvd.
Lakeland, FL 33803

RE: Project: SR679 150929
Pace Project No.: 35123908

Dear Mr. Alessandroni:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joe Vondrick
joe.vondrick@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: SR679 150929

Pace Project No.: 35123908

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SR679 150929

Pace Project No.: 35123908

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35123908001	TW-1 1311138-01	Water	01/21/14 11:17	01/25/14 01:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SR679 150929

Pace Project No.: 35123908

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35123908001	TW-1 1311138-01	SM 5310B	AGS	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SR679 150929

Pace Project No.: 35123908

Sample: TW-1 1311138-01		Lab ID: 35123908001		Collected: 01/21/14 11:17		Received: 01/25/14 01:05		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC									
Analytical Method: SM 5310B									
Total Organic Carbon	5.1	mg/L	1.0	0.50	1		02/04/14 23:07	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SR679 150929

Pace Project No.: 35123908

QC Batch: WETA/33100

Analysis Method: SM 5310B

QC Batch Method: SM 5310B

Analysis Description: 5310B TOC

Associated Lab Samples: 35123908001

METHOD BLANK: 822358

Matrix: Water

Associated Lab Samples: 35123908001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50U	1.0	02/04/14 19:28	

LABORATORY CONTROL SAMPLE: 822359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.9	100	90-110	

MATRIX SPIKE SAMPLE: 822361

Parameter	Units	35124159003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	11.7	20	32.2	103	80-120	

MATRIX SPIKE SAMPLE: 822363

Parameter	Units	35123908001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5.1	20	23.4	91	80-120	

SAMPLE DUPLICATE: 822360

Parameter	Units	35124159003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	11.7	11.7	.3	20	

SAMPLE DUPLICATE: 822362

Parameter	Units	35123908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.1	4.9	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SR679 150929

Pace Project No.: 35123908

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SR679 150929

Pace Project No.: 35123908

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35123908001	TW-1 1311138-01	SM 5310B	WETA/33100		

REPORT OF LABORATORY ANALYSIS

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35123908



1311138

Lab Work Order Number:

Phone: (863) 686-4271 Fax: (863) 686-4389

[illegible]

please email results to: mark@lakelandlabs.com

ICE=Store at 4°C, ICE+Store at 4°C+No Headspace, ICE&=Store at 4°C&in Dark, HNO3=ph=2 w/ HNO3+ICE, HCl=pH=2 w/ HCl+ICE, H2SO4=ph=2 w/ H2SO4+ICE, MeOH=Frozen -10°C+MeOH, N/A=No preservative required, Sub=Subcontracted(see bottle for preservative)

Matrix Codes: A=Air, D=Drywall, GW=Ground Water, SW=Surface Water, W=Water, SO=Soil, SOL=Solid Material, WI=Wipe, OI=Oil, P=Paint Chips, SE=Sediment, SI=Sludge, QI=Organic Liquid, WW=Waste Water

Preserv. Codes:

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	October 8, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: Lakeband Labs Project # 35123908

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace

☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other _____

Thermometer Used F167 Type of Ice: ☒ Ice Blue None

Cooler Temperature °C 03 (Visual) 0 (Correction Factor) 0.3 (Actual)

(Temp should be above freezing to 5°C). If below 0°C, then was sample frozen?

☐ Yes ☐ No

Date and Initials of person examining contents: 1/25/14 MR

Receipt of samples satisfactory:

☐ Yes ☐ No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐
	No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: 1/27/14

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

☐ x 5 Gal
☐ x 2.5 Gal
☐ x 1 Gal
☐ x 1 Liter
☐ x 500 mL
☐ x 250 mL
☐ x Other: _____

Extra Sample in Shed: Yes No



NELAP Certificate No. E84880



1910 Harden Boulevard
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(863) 686-4271 Phone
(863) 686-4389 Fax

Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

07 February 2014
Lab Work Order (COC): 1311138

RE: SR 679

Project Location:

Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **21-Jan-14 14:31**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-1	1311138-01	Ground Water	21-Jan-14 11:17	21-Jan-14 14:31

Comments on Analysis of pH

Analysis of pH in the water and solid matrices falls outside our current scope of TNi accreditation. Pursuant to Chapter 62-160.300(4), TNi accreditation is not required for the analysis of pH. In addition, FDEP designates the maximum holding time for pH analysis in water/wastewater samples as "analyze immediately" and clarifies this to mean within 15 minutes of sample collection. Water/wastewater samples submitted to the laboratory for analysis of pH are inferred to have been submitted after the accepted holding time has expired. For this reason, all results reported for pH analysis in water/wastewater are flagged with a 'Q' data qualifier to denote the samples have been analyzed outside the acceptable holding time as prescribed by FDEP.



NELAP Certificate No. E84880



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Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

TW-1
1311138-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 23-Jan-14 18:36			
EPA Method 624 - VOC					Analyzed: 23-Jan-14 18:36			
					Batch: B401155			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	49.8			ug/L		100 %	80-120	
					Prepared: 22-Jan-14 08:24			
EPA Method 625 - SVOC					Analyzed: 23-Jan-14 12:55			
					Batch: B401127			
Naphthalene	0.500 U	1.00	0.500	ug/L	1			
Surrogate: 2-Fluorobiphenyl	1.54			ug/L		61 %	31-100	
Surrogate: Nitrobenzene-d5	1.43			ug/L		57 %	47-106	
Surrogate: Terphenyl-d14	1.73			ug/L		69 %	48-151	
					Prepared: 24-Jan-14 15:41			
EPA Method 6010C - Metals by ICP					Analyzed: 27-Jan-14 12:35			
					Batch: B401150			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Copper	2.60 U	10.0	2.60	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Zinc	5.00 U	10.0	5.00	ug/L	1			
					Prepared: 24-Jan-14 15:57			
EPA Method 6010C - Metals by ICP (Lab-Filtered)					Analyzed: 27-Jan-14 15:35			
					Batch: B401151			
Cadmium	1.00 U	5.00	1.00	ug/L	1			
Chromium	4.00 U	10.0	4.00	ug/L	1			
Copper	3.00 U	10.0	3.00	ug/L	1			
Lead	4.00 U	10.0	4.00	ug/L	1			
Zinc	5.00 U	10.0	5.00	ug/L	1			
					Prepared: 22-Jan-14 08:00			
SM 3500-Cr B - Cr+6 by Colorimetric Method					Analyzed: 22-Jan-14 08:30			
					Batch: B401130			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

TW-1
1311138-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 22-Jan-14 08:00			
SM 3500-Cr B - Cr+6 by Colorimetric Method					Analyzed: 22-Jan-14 08:30		Batch: B401130	
Hexavalent Chromium	3.60 U	10.0	3.60	ug/L	1			
					Prepared: 22-Jan-14 08:30			
EPA Method 9040B - pH Electrometric Measurement					Analyzed: 22-Jan-14 08:30		Batch: B401131	
pH	7.23			pH Units	1			+, Q



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

EPA Method 624 - VOC - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec Limits	RPD RPD Limit	Qualifiers
Batch: B401155 - Prep Method: 5030B									
Blank (B401155-BLK1)					Prepared: 23-Jan-14 17:11		Analyzed: 23-Jan-14 17:11		
Benzene	0.450 U	1.00	0.450	ug/L					
Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120	
LCS (B401155-BS1)					Prepared: 23-Jan-14 17:39		Analyzed: 23-Jan-14 17:39		
Benzene	38.7	1.00	0.450	ug/L	40.0		97	82-113	
Surrogate: 1,2-Dichloroethane-d4	48.7			ug/L	50.0		97	80-120	
Matrix Spike (B401155-MS1)					Source: 1311140-01		Prepared: 23-Jan-14 21:30		
Benzene	42.5	1.00	0.450	ug/L	40.0	0.450 U	106	70-135	
Surrogate: 1,2-Dichloroethane-d4	47.9			ug/L	50.0		96	80-120	
Matrix Spike Dup (B401155-MSD1)					Source: 1311140-01		Prepared: 23-Jan-14 21:59		
Benzene	48.8	1.00	0.450	ug/L	40.0	0.450 U	122	70-135	14 25
Surrogate: 1,2-Dichloroethane-d4	48.0			ug/L	50.0		96	80-120	



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

EPA Method 625 - SVOC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec Limits	RPD RPD Limit	Qualifiers
Batch: B401127 - Prep Method: 3510C									
Blank (B401127-BLK1)					Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 10:34		
Naphthalene	0.500 U	1.00	0.500	ug/L					
Surrogate: 2-Fluorobiphenyl	1.94			ug/L	2.50		78 31-100		
Surrogate: Nitrobenzene-d5	1.87			ug/L	2.50		75 47-106		
Surrogate: Terphenyl-d14	2.07			ug/L	2.50		83 48-151		
LCS (B401127-BS1)					Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 11:06		
Naphthalene	6.15	1.00	0.500	ug/L	10.0		62 40-100		
Surrogate: 2-Fluorobiphenyl	1.72			ug/L	2.50		69 31-100		
Surrogate: Nitrobenzene-d5	1.57			ug/L	2.50		63 47-106		
Surrogate: Terphenyl-d14	1.76			ug/L	2.50		70 48-151		
Matrix Spike (B401127-MS1)					Source: 1311138-01 Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 11:42		
Naphthalene	5.54	1.00	0.500	ug/L	10.0	0.500 U	55 30-101		
Surrogate: 2-Fluorobiphenyl	1.69			ug/L	2.50		68 31-100		
Surrogate: Nitrobenzene-d5	1.59			ug/L	2.50		64 47-106		
Surrogate: Terphenyl-d14	1.95			ug/L	2.50		78 48-151		
Matrix Spike Dup (B401127-MSD1)					Source: 1311138-01 Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 12:19		
Naphthalene	4.98	1.00	0.500	ug/L	10.0	0.500 U	50 30-101	11 25	
Surrogate: 2-Fluorobiphenyl	1.32			ug/L	2.50		53 31-100		
Surrogate: Nitrobenzene-d5	1.28			ug/L	2.50		51 47-106		
Surrogate: Terphenyl-d14	1.58			ug/L	2.50		63 48-151		



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

EPA Method 6010C - Metals by ICP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401150 - Prep Method: 3010A

Blank (B401150-BLK1)					Prepared: 24-Jan-14 15:41		Analyzed: 27-Jan-14 12:20				
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Copper	2.60 U	10.0	2.60	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
Zinc	5.00 U	10.0	5.00	ug/L							
LCS (B401150-BS1)					Prepared: 24-Jan-14 15:41		Analyzed: 27-Jan-14 12:23				
Cadmium	491	5.00	1.00	ug/L	500		98	80-120			
Chromium	492	10.0	4.00	ug/L	500		98	80-120			
Copper	489	10.0	2.60	ug/L	500		98	80-120			
Lead	490	10.0	4.00	ug/L	500		98	80-120			
Zinc	494	10.0	5.00	ug/L	500		99	80-120			
LCS Dup (B401150-BSD1)					Prepared: 24-Jan-14 15:41		Analyzed: 27-Jan-14 12:26				
Cadmium	491	5.00	1.00	ug/L	500		98	80-120	0	20	
Chromium	486	10.0	4.00	ug/L	500		97	80-120	1	20	
Copper	487	10.0	2.60	ug/L	500		97	80-120	0.4	20	
Lead	491	10.0	4.00	ug/L	500		98	80-120	0.1	20	
Zinc	493	10.0	5.00	ug/L	500		99	80-120	0.2	20	
Matrix Spike (B401150-MS1)					Source: 1401060-06		Prepared: 24-Jan-14 15:41		Analyzed: 27-Jan-14 12:29		
Cadmium	491	5.00	1.00	ug/L	500	1.00 U	98	75-125			
Chromium	496	10.0	4.00	ug/L	500	13.3	97	75-125			
Copper	513	10.0	2.60	ug/L	500	6.40	101	75-125			
Lead	480	10.0	4.00	ug/L	500	4.00 U	96	75-125			
Zinc	554	10.0	5.00	ug/L	500	44.4	102	75-125			
Matrix Spike Dup (B401150-MSD1)					Source: 1401060-06		Prepared: 24-Jan-14 15:41		Analyzed: 27-Jan-14 12:32		
Cadmium	487	5.00	1.00	ug/L	500	1.00 U	97	75-125	0.7	20	
Chromium	488	10.0	4.00	ug/L	500	13.3	95	75-125	2	20	
Copper	505	10.0	2.60	ug/L	500	6.40	100	75-125	2	20	
Lead	477	10.0	4.00	ug/L	500	4.00 U	95	75-125	0.5	20	
Zinc	550	10.0	5.00	ug/L	500	44.4	101	75-125	0.8	20	



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

EPA Method 6010C - Metals by ICP (Lab-Filtered) - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401151 - Prep Method: 3010A

Blank (B401151-BLK1)					Prepared: 24-Jan-14 15:57		Analyzed: 27-Jan-14 15:20				
Cadmium	1.00 U	5.00	1.00	ug/L							
Chromium	4.00 U	10.0	4.00	ug/L							
Copper	3.00 U	10.0	3.00	ug/L							
Lead	4.00 U	10.0	4.00	ug/L							
Zinc	5.00 U	10.0	5.00	ug/L							

LCS (B401151-BS1)					Prepared: 24-Jan-14 15:57		Analyzed: 27-Jan-14 15:23				
Cadmium	492	5.00	1.00	ug/L	500		98	80-120			
Chromium	482	10.0	4.00	ug/L	500		96	80-120			
Copper	486	10.0	3.00	ug/L	500		97	80-120			
Lead	487	10.0	4.00	ug/L	500		97	80-120			
Zinc	492	10.0	5.00	ug/L	500		98	80-120			

LCS Dup (B401151-BSD1)					Prepared: 24-Jan-14 15:57		Analyzed: 27-Jan-14 15:26				
Cadmium	492	5.00	1.00	ug/L	500		98	80-120	0.04	20	
Chromium	482	10.0	4.00	ug/L	500		96	80-120	0.06	20	
Copper	487	10.0	3.00	ug/L	500		97	80-120	0.3	20	
Lead	488	10.0	4.00	ug/L	500		98	80-120	0.1	20	
Zinc	490	10.0	5.00	ug/L	500		98	80-120	0.3	20	

Matrix Spike (B401151-MS1)					Source: 1311138-01		Prepared: 24-Jan-14 15:57		Analyzed: 27-Jan-14 15:29		
Cadmium	478	5.00	1.00	ug/L	500	1.00 U	96	75-125			
Chromium	478	10.0	4.00	ug/L	500	4.00 U	96	75-125			
Copper	499	10.0	3.00	ug/L	500	3.00 U	100	75-125			
Lead	465	10.0	4.00	ug/L	500	4.00 U	93	75-125			
Zinc	504	10.0	5.00	ug/L	500	5.00 U	101	75-125			

Matrix Spike Dup (B401151-MSD1)					Source: 1311138-01		Prepared: 24-Jan-14 15:57		Analyzed: 27-Jan-14 15:32		
Cadmium	479	5.00	1.00	ug/L	500	1.00 U	96	75-125	0.2	20	
Chromium	486	10.0	4.00	ug/L	500	4.00 U	97	75-125	2	20	
Copper	500	10.0	3.00	ug/L	500	3.00 U	100	75-125	0.1	20	
Lead	466	10.0	4.00	ug/L	500	4.00 U	93	75-125	0.2	20	
Zinc	504	10.0	5.00	ug/L	500	5.00 U	101	75-125	0.1	20	



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

SM 3500-Cr B - Cr+6 by Colorimetric Method - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401130 - Prep Method: None.

Blank (B401130-BLK1)					Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30			
Hexavalent Chromium	3.60 U	10.0	3.60	ug/L						
LCS (B401130-BS1)					Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30			
Hexavalent Chromium	117	10.0	3.60	ug/L	100		117	80-120		
LCS Dup (B401130-BSD1)					Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30			
Hexavalent Chromium	117	10.0	3.60	ug/L	100		117	80-120	0.3	20
Duplicate (B401130-DUP1)					Source: 1311138-01		Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30	
Hexavalent Chromium	3.60 U	10.0	3.60	ug/L		3.60 U				20
Matrix Spike (B401130-MS1)					Source: 1311138-01		Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30	
Hexavalent Chromium	92.8	10.0	3.60	ug/L	100	3.60 U	93	80-120		
Matrix Spike Dup (B401130-MSD1)					Source: 1311138-01		Prepared: 22-Jan-14 08:00		Analyzed: 22-Jan-14 08:30	
Hexavalent Chromium	92.7	10.0	3.60	ug/L	100	3.60 U	93	80-120	0.2	20



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
07-Feb-14 08:28
Lab Work Order (COC): 1311138

Notes and Definitions

Q	Sample held beyond the accepted holding time. Reported results derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis. The data may not be accurate.
J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
+	Matrix-Analyte-Method combination falls outside current scope of NELAP accreditation.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



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Nathan Miller
CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

27 January 2014
Lab Work Order (COC): 1311140

RE: SR 679
Project Location:
Project Number: 150929

Dear Nathan Miller:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **21-Jan-14 14:31**.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-1	1311140-01	Ground Water	21-Jan-14 11:17	21-Jan-14 14:31



NELAP Certificate No. E84880



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

TW-1
1311140-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
					Prepared: 23-Jan-14 19:05			
					Analyzed: 23-Jan-14 19:05			
EPA Method 8260C - VOH					Batch: B401155			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L	1			
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L	1			
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L	1			
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L	1			
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L	1			
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L	1			
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L	1			
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L	1			
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L	1			
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L	1			
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L	1			
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L	1			
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L	1			
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L	1			
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L	1			
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L	1			
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L	1			
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L	1			
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L	1			
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L	1			
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L	1			
Bromobenzene	0.410 U	2.00	0.410	ug/L	1			
Bromochloromethane	0.500 U	5.00	0.500	ug/L	1			
Bromodichloromethane	0.540 U	0.600	0.540	ug/L	1			
Bromoform	0.650 U	2.00	0.650	ug/L	1			
Bromomethane	2.00 U	5.00	2.00	ug/L	1			
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L	1			
Chlorobenzene	0.560 U	2.00	0.560	ug/L	1			
Chloroethane	1.17 U	2.00	1.17	ug/L	1			
Chloroform	1.00 U	2.00	1.00	ug/L	1			



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

TW-1
1311140-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 23-Jan-14 19:05								
Analyzed: 23-Jan-14 19:05								
Batch: B401155								
EPA Method 8260C - VOH								
Chloromethane	0.560 U	2.00	0.560	ug/L	1			
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L	1			
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L	1			
Dibromochloromethane	0.710 U	2.00	0.710	ug/L	1			
Dibromomethane	0.250 U	2.00	0.250	ug/L	1			
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L	1			
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L	1			
Iodomethane (Methyl Iodide)	10.0 U	20.0	10.0	ug/L	1			
Methylene Chloride	2.50 U	5.00	2.50	ug/L	1			
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L	1			
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L	1			
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L	1			
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L	1			
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L	1			
Vinyl Chloride	0.970 U	1.00	0.970	ug/L	1			
Surrogate: 1,2-Dichloroethane-d4	48.8			ug/L			98 % 80-120	
Surrogate: 4-Bromofluorobenzene	49.0			ug/L			98 % 80-120	
Surrogate: Dibromofluoromethane	50.5			ug/L			101 % 80-120	
Prepared: 23-Jan-14 19:05								
Analyzed: 23-Jan-14 19:05								
Batch: B401155								
EPA Method 8260C - VOA/BTEX+MTBE								
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	1			
Benzene	0.450 U	1.00	0.450	ug/L	1			
Toluene	0.580 U	2.00	0.580	ug/L	1			
Ethylbenzene	0.500 U	2.00	0.500	ug/L	1			
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L	1			
o-Xylene	0.660 U	2.00	0.660	ug/L	1			
Surrogate: Toluene-d8	48.8			ug/L			98 % 80-120	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

TW-1
1311140-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 08:24								
Analyzed: 23-Jan-14 13:28								
Batch: B401127								
EPA Method 8270D - PAHs								
1-Methylnaphthalene	0.500 U	1.00	0.500	ug/L	1			
2-Methylnaphthalene	0.500 U	1.00	0.500	ug/L	1			
Acenaphthene	0.500 U	1.00	0.500	ug/L	1			
Acenaphthylene	0.500 U	1.00	0.500	ug/L	1			
Anthracene	0.150 U	0.300	0.150	ug/L	1			
Benzo(a)anthracene	0.0120 U	0.200	0.0120	ug/L	1			
Benzo(a)pyrene	0.0110 U	0.100	0.0110	ug/L	1			
Benzo(b)fluoranthene	0.0100 U	0.100	0.0100	ug/L	1			
Benzo(g,h,i)perylene	0.0210 U	0.200	0.0210	ug/L	1			
Benzo(k)fluoranthene	0.0120 U	0.100	0.0120	ug/L	1			
Chrysene	0.0110 U	0.200	0.0110	ug/L	1			
Dibenzo(a,h)anthracene	0.00500 U	0.200	0.00500	ug/L	1			
Fluoranthene	0.150 U	0.300	0.150	ug/L	1			
Fluorene	0.500 U	1.00	0.500	ug/L	1			
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L	1			
Naphthalene	0.500 U	1.00	0.500	ug/L	1			
Phenanthrene	0.100 U	0.200	0.100	ug/L	1			
Pyrene	0.150 U	0.300	0.150	ug/L	1			
Surrogate: 2-Fluorobiphenyl	1.50			ug/L			60 % 31-100	
Surrogate: Nitrobenzene-d5	1.35			ug/L			54 % 47-106	
Surrogate: Terphenyl-d14	1.68			ug/L			67 % 48-151	
Prepared: 23-Jan-14 08:45								
Analyzed: 23-Jan-14 19:25								
Batch: B401140								
EPA Method 8011 - EDB/DBCP								
1,2-Dibromoethane (EDB)	0.00994 U	0.0199	0.00994	ug/L	1			



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

TW-1
1311140-01 (Ground Water)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 22-Jan-14 08:21								
Analyzed: 22-Jan-14 18:42 Batch: B401126								
Petroleum Hydrocarbons by GC/FID								
FL-PRO (C8-C40)	174 U	408	174	ug/L	1			
Surrogate: o-Terphenyl	86.0			ug/L			84 % 82-142	
Surrogate: n-Nonatriacontane	573			ug/L			94 % 42-193	



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	RPD	RPD	RPD
							Limits	Limit	Limit	Qualifiers
Batch: B401155 - Prep Method: 5030B										
Blank (B401155-BLK1)					Prepared: 23-Jan-14 17:11		Analyzed: 23-Jan-14 17:11			
1,1,1,2-Tetrachloroethane	0.700 U	1.30	0.700	ug/L						
1,1,1-Trichloroethane	0.600 U	2.00	0.600	ug/L						
1,1,2,2-Tetrachloroethane	0.410 U	0.500	0.410	ug/L						
1,1,2-Trichloroethane	0.330 U	2.00	0.330	ug/L						
1,1-Dichloroethane	0.250 U	2.00	0.250	ug/L						
1,1-Dichloroethene	1.14 U	2.00	1.14	ug/L						
1,1-Dichloropropene	0.800 U	2.00	0.800	ug/L						
1,2,3-Trichlorobenzene	0.720 U	2.00	0.720	ug/L						
1,2,3-Trichloropropane	0.320 U	0.500	0.320	ug/L						
1,2,4-Trichlorobenzene	0.760 U	2.00	0.760	ug/L						
1,2-Dibromo-3-Chloropropane	1.05 U	2.00	1.05	ug/L						
1,2-Dibromoethane (EDB)	0.290 U	2.00	0.290	ug/L						
1,2-Dichlorobenzene	0.470 U	2.00	0.470	ug/L						
1,2-Dichloroethane	0.380 U	2.00	0.380	ug/L						
1,2-Dichloropropane	0.410 U	2.00	0.410	ug/L						
1,3-Dichlorobenzene	0.490 U	2.00	0.490	ug/L						
1,3-Dichloropropane	0.300 U	4.00	0.300	ug/L						
1,4-Dichlorobenzene	0.490 U	2.00	0.490	ug/L						
2,2-Dichloropropane	0.770 U	7.00	0.770	ug/L						
2-Chloroethyl Vinyl Ether	1.61 U	5.00	1.61	ug/L						
2-Chlorotoluene	0.450 U	2.00	0.450	ug/L						
4-Chlorotoluene	0.500 U	2.00	0.500	ug/L						
Bromobenzene	0.410 U	2.00	0.410	ug/L						
Bromochloromethane	0.500 U	5.00	0.500	ug/L						
Bromodichloromethane	0.540 U	0.600	0.540	ug/L						
Bromoform	0.650 U	2.00	0.650	ug/L						
Bromomethane	2.00 U	5.00	2.00	ug/L						
Carbon Tetrachloride	0.700 U	2.00	0.700	ug/L						
Chlorobenzene	0.560 U	2.00	0.560	ug/L						
Chloroethane	1.17 U	2.00	1.17	ug/L						
Chloroform	1.00 U	2.00	1.00	ug/L						
Chloromethane	0.560 U	2.00	0.560	ug/L						
cis-1,2-Dichloroethene	0.500 U	5.00	0.500	ug/L						



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Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

Blank (B401155-BLK1)					Prepared: 23-Jan-14 17:11		Analyzed: 23-Jan-14 17:11				
cis-1,3-Dichloropropene	0.260 U	0.500	0.260	ug/L							
Dibromochloromethane	0.710 U	2.00	0.710	ug/L							
Dibromomethane	0.250 U	2.00	0.250	ug/L							
Dichlorodifluoromethane	0.930 U	2.00	0.930	ug/L							
Hexachlorobutadiene	2.00 U	3.00	2.00	ug/L							
Iodomethane (Methyl Iodide)	10.0 U	20.0	10.0	ug/L							
Methylene Chloride	2.50 U	5.00	2.50	ug/L							
Tetrachloroethene (PCE)	1.50 U	2.00	1.50	ug/L							
trans-1,2-Dichloroethene	0.500 U	2.00	0.500	ug/L							
trans-1,3-Dichloropropene	0.450 U	2.00	0.450	ug/L							
Trichloroethene (TCE)	0.740 U	2.00	0.740	ug/L							
Trichlorofluoromethane	1.10 U	2.00	1.10	ug/L							
Vinyl Chloride	0.970 U	1.00	0.970	ug/L							

Surrogate: 1,2-Dichloroethane-d4	49.4			ug/L	50.0		99	80-120
Surrogate: 4-Bromofluorobenzene	52.8			ug/L	50.0		106	80-120
Surrogate: Dibromofluoromethane	51.2			ug/L	50.0		102	80-120

LCS (B401155-BS1)				Prepared: 23-Jan-14 17:39		Analyzed: 23-Jan-14 17:39	
1,1,1,2-Tetrachloroethane	36.4	1.30	0.700	ug/L	40.0	91	72-124
1,1,1-Trichloroethane	39.0	2.00	0.600	ug/L	40.0	97	76-122
1,1,2,2-Tetrachloroethane	37.2	0.500	0.410	ug/L	40.0	93	71-112
1,1,2-Trichloroethane	36.3	2.00	0.330	ug/L	40.0	91	79-110
1,1-Dichloroethane	38.0	2.00	0.250	ug/L	40.0	95	80-112
1,1-Dichloroethene	37.8	2.00	1.14	ug/L	40.0	95	74-122
1,1-Dichloropropene	39.8	2.00	0.800	ug/L	40.0	100	83-116
1,2,3-Trichlorobenzene	37.2	2.00	0.720	ug/L	40.0	93	76-116
1,2,3-Trichloropropane	36.2	0.500	0.320	ug/L	40.0	90	71-115
1,2,4-Trichlorobenzene	37.7	2.00	0.760	ug/L	40.0	94	73-118
1,2-Dibromo-3-Chloropropane	34.2	2.00	1.05	ug/L	40.0	85	43-135
1,2-Dibromoethane (EDB)	37.0	2.00	0.290	ug/L	40.0	92	77-116
1,2-Dichlorobenzene	38.0	2.00	0.470	ug/L	40.0	95	80-110
1,2-Dichloroethane	36.2	2.00	0.380	ug/L	40.0	91	73-116
1,2-Dichloropropane	37.4	2.00	0.410	ug/L	40.0	94	78-113
1,3-Dichlorobenzene	38.0	2.00	0.490	ug/L	40.0	95	80-110



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

LCS (B401155-BS1)						Prepared: 23-Jan-14 17:39	Analyzed: 23-Jan-14 17:39				
1,3-Dichloropropane	36.1	4.00	0.300	ug/L	40.0		90	80-109			
1,4-Dichlorobenzene	36.8	2.00	0.490	ug/L	40.0		92	78-107			
2,2-Dichloropropane	44.1	7.00	0.770	ug/L	40.0		110	51-138			
2-Chloroethyl Vinyl Ether	84.1	5.00	1.61	ug/L	100		84	45-145			
2-Chlorotoluene	38.9	2.00	0.450	ug/L	40.0		97	78-113			
4-Chlorotoluene	39.2	2.00	0.500	ug/L	40.0		98	79-115			
Bromobenzene	36.9	2.00	0.410	ug/L	40.0		92	80-114			
Bromochloromethane	35.4	5.00	0.500	ug/L	40.0		89	81-115			
Bromodichloromethane	37.5	0.600	0.540	ug/L	40.0		94	76-117			
Bromoform	35.6	2.00	0.650	ug/L	40.0		89	64-126			
Bromomethane	29.8	5.00	2.00	ug/L	40.0		75	40-138			
Carbon Tetrachloride	39.8	2.00	0.700	ug/L	40.0		100	74-129			
Chlorobenzene	37.3	2.00	0.560	ug/L	40.0		93	79-112			
Chloroethane	36.3	2.00	1.17	ug/L	40.0		91	70-116			
Chloroform	36.4	2.00	1.00	ug/L	40.0		91	72-115			
Chloromethane	31.8	2.00	0.560	ug/L	40.0		80	71-117			
cis-1,2-Dichloroethene	38.0	5.00	0.500	ug/L	40.0		95	83-112			
cis-1,3-Dichloropropene	38.5	0.500	0.260	ug/L	40.0		96	78-120			
Dibromochloromethane	37.6	2.00	0.710	ug/L	40.0		94	72-122			
Dibromomethane	36.7	2.00	0.250	ug/L	40.0		92	77-115			
Dichlorodifluoromethane	37.6	2.00	0.930	ug/L	40.0		94	63-129			
Hexachlorobutadiene	34.2	3.00	2.00	ug/L	40.0		85	68-117			
Iodomethane (Methyl Iodide)	19.8	20.0	10.0	ug/L	40.0		49	30-127			I
Methylene Chloride	34.7	5.00	2.50	ug/L	40.0		87	73-119			
Tetrachloroethene (PCE)	34.8	2.00	1.50	ug/L	40.0		87	62-140			
trans-1,2-Dichloroethene	38.0	2.00	0.500	ug/L	40.0		95	81-114			
trans-1,3-Dichloropropene	36.8	2.00	0.450	ug/L	40.0		92	70-119			
Trichloroethene (TCE)	38.9	2.00	0.740	ug/L	40.0		97	80-115			
Trichlorofluoromethane	37.7	2.00	1.10	ug/L	40.0		94	66-135			
Vinyl Chloride	36.7	1.00	0.970	ug/L	40.0		92	72-122			
Surrogate: 1,2-Dichloroethane-d4	48.7			ug/L	50.0		97	80-120			
Surrogate: 4-Bromofluorobenzene	50.7			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	50.3			ug/L	50.0		101	80-120			



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

Matrix Spike (B401155-MS1)	Source: 1311140-01			Prepared: 23-Jan-14 21:30			Analyzed: 23-Jan-14 21:30				
1,1,1,2-Tetrachloroethane	39.8	1.30	0.700	ug/L	40.0	0.700 U	100	72-132			
1,1,1-Trichloroethane	42.9	2.00	0.600	ug/L	40.0	0.600 U	107	76-133			
1,1,2,2-Tetrachloroethane	40.0	0.500	0.410	ug/L	40.0	0.410 U	100	64-121			
1,1,2-Trichloroethane	40.2	2.00	0.330	ug/L	40.0	0.330 U	100	79-113			
1,1-Dichloroethane	41.5	2.00	0.250	ug/L	40.0	0.250 U	104	81-121			
1,1-Dichloroethene	40.7	2.00	1.14	ug/L	40.0	1.14 U	102	76-131			
1,1-Dichloropropene	43.2	2.00	0.800	ug/L	40.0	0.800 U	108	85-125			
1,2,3-Trichlorobenzene	38.8	2.00	0.720	ug/L	40.0	0.720 U	97	74-126			
1,2,3-Trichloropropane	39.7	0.500	0.320	ug/L	40.0	0.320 U	99	66-118			
1,2,4-Trichlorobenzene	38.2	2.00	0.760	ug/L	40.0	0.760 U	95	70-131			
1,2-Dibromo-3-Chloropropane	36.6	2.00	1.05	ug/L	40.0	1.05 U	92	36-143			
1,2-Dibromoethane (EDB)	40.1	2.00	0.290	ug/L	40.0	0.290 U	100	76-120			
1,2-Dichlorobenzene	40.8	2.00	0.470	ug/L	40.0	0.470 U	102	79-117			
1,2-Dichloroethane	38.8	2.00	0.380	ug/L	40.0	0.380 U	97	72-123			
1,2-Dichloropropane	41.1	2.00	0.410	ug/L	40.0	0.410 U	103	78-122			
1,3-Dichlorobenzene	40.3	2.00	0.490	ug/L	40.0	0.490 U	101	81-117			
1,3-Dichloropropane	40.0	4.00	0.300	ug/L	40.0	0.300 U	100	79-114			
1,4-Dichlorobenzene	38.9	2.00	0.490	ug/L	40.0	0.490 U	97	78-113			
2,2-Dichloropropane	46.7	7.00	0.770	ug/L	40.0	0.770 U	117	44-138			
2-Chloroethyl Vinyl Ether	79.2	5.00	1.61	ug/L	100	1.61 U	79	34-152			
2-Chlorotoluene	41.4	2.00	0.450	ug/L	40.0	0.450 U	104	71-132			
4-Chlorotoluene	41.8	2.00	0.500	ug/L	40.0	0.500 U	104	77-125			
Bromobenzene	40.4	2.00	0.410	ug/L	40.0	0.410 U	101	82-119			
Bromochloromethane	39.6	5.00	0.500	ug/L	40.0	0.500 U	99	82-121			
Bromodichloromethane	41.6	0.600	0.540	ug/L	40.0	0.540 U	104	75-126			
Bromoform	38.8	2.00	0.650	ug/L	40.0	0.650 U	97	63-129			
Bromomethane	33.0	5.00	2.00	ug/L	40.0	2.00 U	83	26-152			
Carbon Tetrachloride	43.3	2.00	0.700	ug/L	40.0	0.700 U	108	72-144			
Chlorobenzene	40.7	2.00	0.560	ug/L	40.0	0.560 U	102	82-116			
Chloroethane	39.2	2.00	1.17	ug/L	40.0	1.17 U	98	74-123			
Chloroform	39.2	2.00	1.00	ug/L	40.0	1.00 U	98	74-121			
Chloromethane	33.0	2.00	0.560	ug/L	40.0	0.560 U	83	70-125			
cis-1,2-Dichloroethene	40.9	5.00	0.500	ug/L	40.0	0.500 U	102	84-121			



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Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

Matrix Spike (B401155-MS1)	Source: 1311140-01			Prepared: 23-Jan-14 21:30			Analyzed: 23-Jan-14 21:30				
cis-1,3-Dichloropropene	41.5	0.500	0.260	ug/L	40.0	0.260 U	104	73-127			
Dibromochloromethane	41.1	2.00	0.710	ug/L	40.0	0.710 U	103	71-129			
Dibromomethane	39.4	2.00	0.250	ug/L	40.0	0.250 U	99	76-120			
Dichlorodifluoromethane	40.4	2.00	0.930	ug/L	40.0	0.930 U	101	65-139			
Hexachlorobutadiene	34.9	3.00	2.00	ug/L	40.0	2.00 U	87	68-123			
Iodomethane (Methyl Iodide)	23.8	20.0	10.0	ug/L	40.0	10.0 U	60	21-145			
Methylene Chloride	35.7	5.00	2.50	ug/L	40.0	2.50 U	89	73-124			
Tetrachloroethene (PCE)	36.9	2.00	1.50	ug/L	40.0	1.50 U	92	54-144			
trans-1,2-Dichloroethene	41.6	2.00	0.500	ug/L	40.0	0.500 U	104	85-121			
trans-1,3-Dichloropropene	39.0	2.00	0.450	ug/L	40.0	0.450 U	98	62-126			
Trichloroethene (TCE)	42.6	2.00	0.740	ug/L	40.0	0.740 U	106	80-127			
Trichlorofluoromethane	41.3	2.00	1.10	ug/L	40.0	1.10 U	103	72-143			
Vinyl Chloride	40.0	1.00	0.970	ug/L	40.0	0.970 U	100	75-131			
Surrogate: 1,2-Dichloroethane-d4	47.9			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.0			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	50.1			ug/L	50.0		100	80-120			

Matrix Spike Dup (B401155-MSD1)	Source: 1311140-01			Prepared: 23-Jan-14 21:59			Analyzed: 23-Jan-14 21:59				
1,1,1,2-Tetrachloroethane	46.0	1.30	0.700	ug/L	40.0	0.700 U	115	72-132	14	20	
1,1,1-Trichloroethane	49.9	2.00	0.600	ug/L	40.0	0.600 U	125	76-133	15	20	
1,1,2,2-Tetrachloroethane	45.7	0.500	0.410	ug/L	40.0	0.410 U	114	64-121	13	20	
1,1,2-Trichloroethane	45.0	2.00	0.330	ug/L	40.0	0.330 U	113	79-113	11	20	
1,1-Dichloroethane	48.3	2.00	0.250	ug/L	40.0	0.250 U	121	81-121	15	20	
1,1-Dichloroethene	47.2	2.00	1.14	ug/L	40.0	1.14 U	118	76-131	15	20	
1,1-Dichloropropene	49.6	2.00	0.800	ug/L	40.0	0.800 U	124	85-125	14	20	
1,2,3-Trichlorobenzene	46.2	2.00	0.720	ug/L	40.0	0.720 U	115	74-126	17	20	
1,2,3-Trichloropropane	44.4	0.500	0.320	ug/L	40.0	0.320 U	111	66-118	11	20	
1,2,4-Trichlorobenzene	44.7	2.00	0.760	ug/L	40.0	0.760 U	112	70-131	16	20	
1,2-Dibromo-3-Chloropropane	42.1	2.00	1.05	ug/L	40.0	1.05 U	105	36-143	14	20	
1,2-Dibromoethane (EDB)	44.8	2.00	0.290	ug/L	40.0	0.290 U	112	76-120	11	20	
1,2-Dichlorobenzene	47.0	2.00	0.470	ug/L	40.0	0.470 U	117	79-117	14	20	
1,2-Dichloroethane	44.9	2.00	0.380	ug/L	40.0	0.380 U	112	72-123	15	20	
1,2-Dichloropropane	47.4	2.00	0.410	ug/L	40.0	0.410 U	118	78-122	14	20	
1,3-Dichlorobenzene	46.1	2.00	0.490	ug/L	40.0	0.490 U	115	81-117	13	20	



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOH - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

Matrix Spike Dup (B401155-MSD1)	Source: 1311140-01			Prepared: 23-Jan-14 21:59			Analyzed: 23-Jan-14 21:59				
1,3-Dichloropropane	45.0	4.00	0.300	ug/L	40.0	0.300 U	113	79-114	12	20	
1,4-Dichlorobenzene	44.8	2.00	0.490	ug/L	40.0	0.490 U	112	78-113	14	20	
2,2-Dichloropropane	55.2	7.00	0.770	ug/L	40.0	0.770 U	138	44-138	17	20	
2-Chloroethyl Vinyl Ether	94.5	5.00	1.61	ug/L	100	1.61 U	95	34-152	18	20	
2-Chlorotoluene	48.3	2.00	0.450	ug/L	40.0	0.450 U	121	71-132	15	20	
4-Chlorotoluene	48.3	2.00	0.500	ug/L	40.0	0.500 U	121	77-125	14	20	
Bromobenzene	46.5	2.00	0.410	ug/L	40.0	0.410 U	116	82-119	14	20	
Bromochloromethane	45.4	5.00	0.500	ug/L	40.0	0.500 U	114	82-121	14	20	
Bromodichloromethane	48.1	0.600	0.540	ug/L	40.0	0.540 U	120	75-126	15	20	
Bromoform	44.2	2.00	0.650	ug/L	40.0	0.650 U	111	63-129	13	20	
Bromomethane	37.8	5.00	2.00	ug/L	40.0	2.00 U	95	26-152	14	20	
Carbon Tetrachloride	50.8	2.00	0.700	ug/L	40.0	0.700 U	127	72-144	16	20	
Chlorobenzene	46.7	2.00	0.560	ug/L	40.0	0.560 U	117	82-116	14	20	J2
Chloroethane	45.3	2.00	1.17	ug/L	40.0	1.17 U	113	74-123	14	20	
Chloroform	45.2	2.00	1.00	ug/L	40.0	1.00 U	113	74-121	14	20	
Chloromethane	39.6	2.00	0.560	ug/L	40.0	0.560 U	99	70-125	18	20	
cis-1,2-Dichloroethene	47.8	5.00	0.500	ug/L	40.0	0.500 U	119	84-121	16	20	
cis-1,3-Dichloropropene	48.1	0.500	0.260	ug/L	40.0	0.260 U	120	73-127	15	20	
Dibromochloromethane	47.0	2.00	0.710	ug/L	40.0	0.710 U	118	71-129	14	20	
Dibromomethane	44.8	2.00	0.250	ug/L	40.0	0.250 U	112	76-120	13	20	
Dichlorodifluoromethane	45.9	2.00	0.930	ug/L	40.0	0.930 U	115	65-139	13	20	
Hexachlorobutadiene	41.8	3.00	2.00	ug/L	40.0	2.00 U	104	68-123	18	20	
Iodomethane (Methyl Iodide)	40.1	20.0	10.0	ug/L	40.0	10.0 U	100	21-145	51	20	J2
Methylene Chloride	41.4	5.00	2.50	ug/L	40.0	2.50 U	103	73-124	15	20	
Tetrachloroethene (PCE)	40.6	2.00	1.50	ug/L	40.0	1.50 U	101	54-144	10	20	
trans-1,2-Dichloroethene	47.4	2.00	0.500	ug/L	40.0	0.500 U	119	85-121	13	20	
trans-1,3-Dichloropropene	46.1	2.00	0.450	ug/L	40.0	0.450 U	115	62-126	17	20	
Trichloroethene (TCE)	48.6	2.00	0.740	ug/L	40.0	0.740 U	122	80-127	13	20	
Trichlorofluoromethane	47.5	2.00	1.10	ug/L	40.0	1.10 U	119	72-143	14	20	
Vinyl Chloride	46.2	1.00	0.970	ug/L	40.0	0.970 U	116	75-131	14	20	
Surrogate: 1,2-Dichloroethane-d4	48.0			ug/L	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	49.8			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	50.0			ug/L	50.0		100	80-120			



NELAP Certificate No. E84880



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CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8260C - VOA/BTEX+MTBE - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401155 - Prep Method: 5030B

Blank (B401155-BLK1)				Prepared: 23-Jan-14 17:11			Analyzed: 23-Jan-14 17:11				
Methyl tert-Butyl Ether (MTBE)	0.250 U	3.00	0.250	ug/L	50.0			98	80-120		
Benzene	0.450 U	1.00	0.450	ug/L							
Toluene	0.580 U	2.00	0.580	ug/L							
Ethylbenzene	0.500 U	2.00	0.500	ug/L							
m- & p-Xylenes	1.23 U	4.00	1.23	ug/L							
o-Xylene	0.660 U	2.00	0.660	ug/L							
Surrogate: Toluene-d8				48.8	ug/L	50.0	98	80-120			
LCS (B401155-BS1)				Prepared: 23-Jan-14 17:39			Analyzed: 23-Jan-14 17:39				
Methyl tert-Butyl Ether (MTBE)	37.6	3.00	0.250	ug/L	40.0		94	71-115			
Benzene	38.7	1.00	0.450	ug/L	40.0		97	82-113			
Toluene	37.8	2.00	0.580	ug/L	40.0		94	80-112			
Ethylbenzene	38.9	2.00	0.500	ug/L	40.0		97	82-116			
m- & p-Xylenes	78.7	4.00	1.23	ug/L	80.0		98	81-120			
o-Xylene	39.4	2.00	0.660	ug/L	40.0		98	80-119			
Surrogate: Toluene-d8				49.6	ug/L	50.0	99	80-120			
Matrix Spike (B401155-MS1)				Source: 1311140-01			Prepared: 23-Jan-14 21:30			Analyzed: 23-Jan-14 21:30	
Methyl tert-Butyl Ether (MTBE)	40.6	3.00	0.250	ug/L	40.0	0.250 U	102	64-123			
Benzene	42.5	1.00	0.450	ug/L	40.0	0.450 U	106	70-135			
Toluene	41.9	2.00	0.580	ug/L	40.0	0.580 U	105	82-120			
Ethylbenzene	42.8	2.00	0.500	ug/L	40.0	0.500 U	107	74-134			
m- & p-Xylenes	85.6	4.00	1.23	ug/L	80.0	1.23 U	107	77-131			
o-Xylene	42.8	2.00	0.660	ug/L	40.0	0.660 U	107	78-132			
Surrogate: Toluene-d8				49.6	ug/L	50.0	99	80-120			
Matrix Spike Dup (B401155-MSD1)				Source: 1311140-01			Prepared: 23-Jan-14 21:59			Analyzed: 23-Jan-14 21:59	
Methyl tert-Butyl Ether (MTBE)	46.7	3.00	0.250	ug/L	40.0	0.250 U	117	64-123	14	20	
Benzene	48.8	1.00	0.450	ug/L	40.0	0.450 U	122	70-135	14	20	
Toluene	48.0	2.00	0.580	ug/L	40.0	0.580 U	120	82-120	14	20	
Ethylbenzene	49.2	2.00	0.500	ug/L	40.0	0.500 U	123	74-134	14	20	
m- & p-Xylenes	98.1	4.00	1.23	ug/L	80.0	1.23 U	123	77-131	14	20	
o-Xylene	49.6	2.00	0.660	ug/L	40.0	0.660 U	124	78-132	15	20	
Surrogate: Toluene-d8				49.6	ug/L	50.0	99	80-120			



NELAP Certificate No. E84880



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CB&I (Tampa)
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Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8270D - PAHs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD RPD	RPD Limit	Qualifiers
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Batch: B401127 - Prep Method: 3510C

Blank (B401127-BLK1)					Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 10:34			
1-Methylnaphthalene	0.500 U	1.00	0.500	ug/L						
2-Methylnaphthalene	0.500 U	1.00	0.500	ug/L						
Acenaphthene	0.500 U	1.00	0.500	ug/L						
Acenaphthylene	0.500 U	1.00	0.500	ug/L						
Anthracene	0.150 U	0.300	0.150	ug/L						
Benzo(a)anthracene	0.0120 U	0.200	0.0120	ug/L						
Benzo(a)pyrene	0.0110 U	0.100	0.0110	ug/L						
Benzo(b)fluoranthene	0.0100 U	0.100	0.0100	ug/L						
Benzo(g,h,i)perylene	0.0210 U	0.200	0.0210	ug/L						
Benzo(k)fluoranthene	0.0120 U	0.100	0.0120	ug/L						
Chrysene	0.0110 U	0.200	0.0110	ug/L						
Dibenzo(a,h)anthracene	0.00500 U	0.200	0.00500	ug/L						
Fluoranthene	0.150 U	0.300	0.150	ug/L						
Fluorene	0.500 U	1.00	0.500	ug/L						
Indeno(1,2,3-cd)pyrene	0.0130 U	0.200	0.0130	ug/L						
Naphthalene	0.500 U	1.00	0.500	ug/L						
Phenanthrene	0.100 U	0.200	0.100	ug/L						
Pyrene	0.150 U	0.300	0.150	ug/L						
Surrogate: 2-Fluorobiphenyl	1.94			ug/L	2.50		78	31-100		
Surrogate: Nitrobenzene-d5	1.87			ug/L	2.50		75	47-106		
Surrogate: Terphenyl-d14	2.07			ug/L	2.50		83	48-151		

LCS (B401127-BS1)					Prepared: 22-Jan-14 08:24		Analyzed: 23-Jan-14 11:06			
1-Methylnaphthalene	6.01	1.00	0.500	ug/L	10.0		60	49-100		
2-Methylnaphthalene	5.89	1.00	0.500	ug/L	10.0		59	50-100		
Acenaphthene	6.60	1.00	0.500	ug/L	10.0		66	50-100		
Acenaphthylene	7.32	1.00	0.500	ug/L	10.0		73	50-101		
Anthracene	6.57	0.300	0.150	ug/L	10.0		66	50-100		
Benzo(a)anthracene	7.12	0.200	0.0120	ug/L	10.0		71	47-109		
Benzo(a)pyrene	6.35	0.100	0.0110	ug/L	10.0		64	47-106		
Benzo(b)fluoranthene	6.40	0.100	0.0100	ug/L	10.0		64	48-108		
Benzo(g,h,i)perylene	6.38	0.200	0.0210	ug/L	10.0		64	50-102		
Benzo(k)fluoranthene	6.21	0.100	0.0120	ug/L	10.0		62	40-113		
Chrysene	6.83	0.200	0.0110	ug/L	10.0		68	53-105		



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Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8270D - PAHs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401127 - Prep Method: 3510C

LCS (B401127-BS1)				Prepared: 22-Jan-14 08:24			Analyzed: 23-Jan-14 11:06				
Dibenzo(a,h)anthracene	6.13	0.200	0.00500	ug/L	10.0		61	46-111			
Fluoranthene	7.02	0.300	0.150	ug/L	10.0		70	50-101			
Fluorene	6.57	1.00	0.500	ug/L	10.0		66	51-102			
Indeno(1,2,3-cd)pyrene	6.69	0.200	0.0130	ug/L	10.0		67	50-103			
Naphthalene	6.15	1.00	0.500	ug/L	10.0		62	46-100			
Phenanthrene	6.42	0.200	0.100	ug/L	10.0		64	47-100			
Pyrene	6.88	0.300	0.150	ug/L	10.0		69	45-105			
Surrogate: 2-Fluorobiphenyl	1.72			ug/L	2.50		69	31-100			
Surrogate: Nitrobenzene-d5	1.57			ug/L	2.50		63	47-106			
Surrogate: Terphenyl-d14	1.76			ug/L	2.50		70	48-151			
Matrix Spike (B401127-MS1)				Source: 1311138-01			Prepared: 22-Jan-14 08:24			Analyzed: 23-Jan-14 11:42	
1-Methylnaphthalene	5.42	1.00	0.500	ug/L	10.0	0.500 U	54	46-100			
2-Methylnaphthalene	5.39	1.00	0.500	ug/L	10.0	0.500 U	54	41-100			
Acenaphthene	5.86	1.00	0.500	ug/L	10.0	0.500 U	59	50-100			
Acenaphthylene	6.64	1.00	0.500	ug/L	10.0	0.500 U	66	55-100			
Anthracene	5.72	0.300	0.150	ug/L	10.0	0.150 U	57	51-100			
Benzo(a)anthracene	6.53	0.200	0.0120	ug/L	10.0	0.0120 U	65	47-103			
Benzo(a)pyrene	5.83	0.100	0.0110	ug/L	10.0	0.0110 U	58	49-100			
Benzo(b)fluoranthene	6.03	0.100	0.0100	ug/L	10.0	0.0100 U	60	43-110			
Benzo(g,h,i)perylene	5.92	0.200	0.0210	ug/L	10.0	0.0210 U	59	50-100			
Benzo(k)fluoranthene	5.46	0.100	0.0120	ug/L	10.0	0.0120 U	55	45-100			
Chrysene	6.13	0.200	0.0110	ug/L	10.0	0.0110 U	61	54-100			
Dibenzo(a,h)anthracene	5.63	0.200	0.00500	ug/L	10.0	0.00500 U	56	53-104			
Fluoranthene	6.09	0.300	0.150	ug/L	10.0	0.150 U	61	54-100			
Fluorene	5.94	1.00	0.500	ug/L	10.0	0.500 U	59	51-100			
Indeno(1,2,3-cd)pyrene	6.11	0.200	0.0130	ug/L	10.0	0.0130 U	61	52-100			
Naphthalene	5.54	1.00	0.500	ug/L	10.0	0.500 U	55	30-101			
Phenanthrene	5.74	0.200	0.100	ug/L	10.0	0.100 U	57	50-100			
Pyrene	6.31	0.300	0.150	ug/L	10.0	0.150 U	63	52-100			
Surrogate: 2-Fluorobiphenyl	1.69			ug/L	2.50		68	31-100			
Surrogate: Nitrobenzene-d5	1.59			ug/L	2.50		64	47-106			
Surrogate: Terphenyl-d14	1.95			ug/L	2.50		78	48-151			



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Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8270D - PAHs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B401127 - Prep Method: 3510C

Matrix Spike Dup (B401127-MSD1)	Source: 1311138-01			Prepared: 22-Jan-14 08:24			Analyzed: 23-Jan-14 12:19				
1-Methylnaphthalene	4.82	1.00	0.500	ug/L	10.0	0.500 U	48	46-100	12	25	J2
2-Methylnaphthalene	4.72	1.00	0.500	ug/L	10.0	0.500 U	47	41-100	13	25	
Acenaphthene	4.91	1.00	0.500	ug/L	10.0	0.500 U	49	50-100	18	25	
Acenaphthylene	5.68	1.00	0.500	ug/L	10.0	0.500 U	57	55-100	16	25	
Anthracene	5.28	0.300	0.150	ug/L	10.0	0.150 U	53	51-100	8	25	
Benzo(a)anthracene	6.73	0.200	0.0120	ug/L	10.0	0.0120 U	67	47-103	3	25	
Benzo(a)pyrene	5.90	0.100	0.0110	ug/L	10.0	0.0110 U	59	49-100	1	25	
Benzo(b)fluoranthene	5.85	0.100	0.0100	ug/L	10.0	0.0100 U	59	43-110	3	25	
Benzo(g,h,i)perylene	5.88	0.200	0.0210	ug/L	10.0	0.0210 U	59	50-100	0.7	25	
Benzo(k)fluoranthene	5.72	0.100	0.0120	ug/L	10.0	0.0120 U	57	45-100	5	25	
Chrysene	6.38	0.200	0.0110	ug/L	10.0	0.0110 U	64	54-100	4	25	J2
Dibenzo(a,h)anthracene	5.61	0.200	0.00500	ug/L	10.0	0.00500 U	56	53-104	0.2	25	
Fluoranthene	5.96	0.300	0.150	ug/L	10.0	0.150 U	60	54-100	2	25	
Fluorene	5.63	1.00	0.500	ug/L	10.0	0.500 U	56	51-100	5	25	
Indeno(1,2,3-cd)pyrene	6.10	0.200	0.0130	ug/L	10.0	0.0130 U	61	52-100	0.2	25	
Naphthalene	4.98	1.00	0.500	ug/L	10.0	0.500 U	50	30-101	11	25	
Phenanthrene	5.42	0.200	0.100	ug/L	10.0	0.100 U	54	50-100	6	25	
Pyrene	6.11	0.300	0.150	ug/L	10.0	0.150 U	61	52-100	3	25	
Surrogate: 2-Fluorobiphenyl	1.32			ug/L	2.50		53	31-100			
Surrogate: Nitrobenzene-d5	1.28			ug/L	2.50		51	47-106			
Surrogate: Terphenyl-d14	1.58			ug/L	2.50		63	48-151			



NELAP Certificate No. E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

CB&I (Tampa)
725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

EPA Method 8011 - EDB/DBCP - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B401140 - Prep Method: 8011											
Blank (B401140-BLK1)					Prepared: 23-Jan-14 08:45			Analyzed: 23-Jan-14 17:58			
1,2-Dibromoethane (EDB)	0.0100 U	0.0200	0.0100	ug/L							
LCS (B401140-BS1)					Prepared: 23-Jan-14 08:45			Analyzed: 23-Jan-14 18:20			
1,2-Dibromoethane (EDB)	0.243	0.0202	0.0101	ug/L	0.252		96	60-140			
Matrix Spike (B401140-MS1)		Source: 1312093-01			Prepared: 23-Jan-14 08:45			Analyzed: 23-Jan-14 18:42			
1,2-Dibromoethane (EDB)	0.183	0.0199	0.00997	ug/L	0.199	0.00997 U	92	60-140			
Matrix Spike Dup (B401140-MSD1)		Source: 1312093-01			Prepared: 23-Jan-14 08:45			Analyzed: 23-Jan-14 19:04			
1,2-Dibromoethane (EDB)	0.202	0.0198	0.00992	ug/L	0.198	0.00992 U	102	60-140	10	25	



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725 U.S. Highway 301 South
Tampa, FL 33619

Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

Petroleum Hydrocarbons by GC/FID - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec %Rec	RPD RPD	RPD Limit	Qualifiers
---------	--------	-----	-----	-------	-------------	---------------	-----------	---------	-----------	------------

Batch: B401126 - Prep Method: 3510C

Blank (B401126-BLK1)					Prepared: 22-Jan-14 08:21		Analyzed: 22-Jan-14 16:56			
FL-PRO (C8-C40)	171 U	400	171	ug/L						
Surrogate: o-Terphenyl	80.0			ug/L	100		80	82-142		J2
Surrogate: n-Nonatriacontane	538			ug/L	600		90	42-193		
LCS (B401126-BS1)					Prepared: 22-Jan-14 08:21		Analyzed: 22-Jan-14 17:31			
FL-PRO (C8-C40)	1150	400	171	ug/L	1410		82	55-118		
Surrogate: o-Terphenyl	79.0			ug/L	100		79	82-142		J2
Surrogate: n-Nonatriacontane	497			ug/L	600		83	42-193		
LCS Dup (B401126-BSD1)					Prepared: 22-Jan-14 08:21		Analyzed: 22-Jan-14 18:07			
FL-PRO (C8-C40)	1180	400	171	ug/L	1410		84	55-118	2	20
Surrogate: o-Terphenyl	80.0			ug/L	100		80	82-142		J2
Surrogate: n-Nonatriacontane	510			ug/L	600		85	42-193		



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Project Name: SR 679
Project Number: 150929
Project Location:
Project Manager: Nathan Miller

Reported:
27-Jan-14 09:49
Lab Work Order (COC): 1311140

Notes and Definitions

J2	The reported value failed to meet the established quality control criteria for precision and/or accuracy.
I	Result is between LOQ/PQL and LOD/MDL.
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



Page 1 of 1



Preserv. Codes: H2SO4=pH<2 w/ H2SO4+Store 4°C, ICE=Store cool at 4°C, ICE=Store cool at 4°C, ICE+=Store cool at 4°C+No Headspace

Appendix C
Groundwater Sampling Logs and
Instrument Calibration Logs

GROUNDWATER SAMPLING LOG

SITE NAME: FOOT 56679	SITE #1	SITE LOCATION: St. Pete, FL
WELL NO: TW-1	SAMPLE ID: TW-1	DATE: 1/16/14

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4.25 feet to 9.25 feet	STATIC DEPTH TO WATER (ft): 6.34	PURGE PUMP TYPE OR BAILER: Peristaltic
----------------------------------	--------------------------------------	--	---	---

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

only fill out if applicable)

$$= (9.25 \text{ feet} - 6.34 \text{ feet}) \times 0.04 \text{ gallons/foot} = 0.11 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable)

$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	PURGING INITIATED AT: 1442	PURGING ENDED AT: 1522	TOTAL VOLUME PURGED (gallons): 2.0
--	--	-----------------------------------	-------------------------------	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1446	.2	.2	.05	6.56	10.81	21.94	566	1.25	24.2	Clear	None
1450	.2	.4	.05	6.60	10.40	22.46	561	1.0	9.74	"	"
1454	.2	.6	.05	6.62	9.97	22.72	558	0.82	3.62	"	"
1458	.2	.8	.05	6.62	9.32	23.10	555	0.70	2.11	"	"
1502	.2	1.0	.05	6.63	8.93	23.28	554	0.63	1.57	"	"
1506	.2	1.2	.05	6.62	8.47	23.23	553	0.55	1.13	"	"
1510	.2	1.4	.05	6.63	8.26	23.36	553	0.51	1.08	"	"
1514	.2	1.6	.05	6.63	8.07	23.44	553	0.48	0.97	"	"
1518	.2	1.8	.05	6.62	7.97	23.53	553	0.46	0.85	"	"
1522	.2	2.0	.05	6.63	7.91	23.48	552	0.45	0.70	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jaime Perez / CBT	SAMPLER(S) SIGNATURES: <i>Jaime Perez</i>	SAMPLING INITIATED AT: 1523	SAMPLING ENDED AT: 1548
PUMP OR TUBING DEPTH IN WELL (feet): 8.25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y ☒ N	FILTER SIZE: _____ μm

FIELD DECONTAMINATION: PUMP ☒ **Y** ☐ **N** TUBING: **Y** ☒ **N** (replaced) DUPLICATE: **Y** ☒ **N**

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
TW-1	* See COC for details *								
MS									
MSD									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Fdot 52.679	SITE # 2	SITE LOCATION: St. Rik
WELL NO: TW-1	SAMPLE ID: TW-1	DATE: 1/16/14

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 9.08 feet to 9.08 feet	STATIC DEPTH TO WATER (ft): 5.54	PURGE PUMP TYPE OR BAILER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (9.08 feet - 5.54 feet) X .04 gallons/foot = .14 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1358	TOTAL VOLUME PURGED (gallons): 1.4							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1334	.2	.2	.05	6.09	9.87	20.91	792	1.72	12.8	Clear	None
1338	.2	.4	.05	6.11	10.32	21.04	796	1.08	4.48	"	"
1342	.2	.6	.05	6.21	10.66	21.30	798	0.84	2.41	"	"
1346	.2	.8	.05	6.29	11.32	21.45	809	0.76	1.29	"	"
1350	.2	1.0	.05	6.04	11.63	20.84	793	0.74	1.05	"	"
1354	.2	1.2	.05	6.04	11.62	20.95	786	0.62	0.65	"	"
1358	.2	1.4	.05	6.04	11.57	21.00	793	0.58	0.55	"	"
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jaime Pena / CBE				SAMPLER(S) SIGNATURES: <i>Jaime Pena</i>				SAMPLING INITIATED AT: 1359		SAMPLING ENDED AT: 1424	
PUMP OR TUBING DEPTH IN WELL (feet): 7.5				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y ☒ N		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP ☒ N				TUBING: Y ☒ N (replaced)				DUPLICATE: Y ☒ N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
TW-1	1	* See CoC for details									
MS											
MSD											
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: <u>FDOT SR2679</u> <u>Site # 4</u>		SITE LOCATION: <u>St. Pete, FL</u>	
WELL NO: <u>TW-1</u>		SAMPLE ID: <u>TW-1</u> DATE: <u>1/16/14</u>	

PURGING DATA

WELL DIAMETER (inches): <u>1</u>		TUBING DIAMETER (inches): <u>1/4</u>		WELL SCREEN INTERVAL DEPTH: <u>2.56</u> feet to <u>17.56</u> feet		STATIC DEPTH TO WATER(ft): <u>12.75</u>		PURGE PUMP TYPE OR BAILER: <u>peristaltic</u>			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = (<u>17.56</u> feet - <u>12.75</u> feet) X <u>.04</u> gallons/foot = <u>.19</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = <u> </u> gallons + (<u> </u> gallons/foot X <u> </u> feet) + <u> </u> gallons = <u> </u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>14.5</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>14.5</u>		PURGING INITIATED AT: <u>1012</u>		PURGING ENDED AT: <u>1048</u>		TOTAL VOLUME PURGED (gallons): <u>1.8</u>			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L</u> or <u>% saturation</u>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1016	.2	.2	.05	12.76	9.01	18.59	1068	7.29	68.0	cloudy	none
1020	.2	.4	.05	12.74	8.52	17.90	1265	4.77	47.7	clear	"
1024	.2	.6	.05	12.78	8.20	18.62	1373	3.33	33.6	"	"
1028	.2	.8	.05	12.77	7.97	19.02	1409	2.75	23.1	"	"
1032	.2	1.0	.05	12.78	7.80	19.16	1436	2.27	15.5	"	"
1036	.2	1.2	.05	12.76	7.69	18.87	1445	1.87	10.09	"	"
1040	.2	1.4	.05	12.76	7.60	18.78	1444	1.69 *	7.64	"	"
1044	.2	1.6	.05	12.77	7.53	18.76	1442	1.49 *	4.50	"	"
1048	.2	1.8	.05	12.78	7.44	18.67	1437	1.36 *	2.95	"	"
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Jaimie Peña / CBI</u>				SAMPLER(S) SIGNATURES: <u>Jaimie Peña</u>				SAMPLING INITIATED AT: <u>1049</u>		SAMPLING ENDED AT: <u>1206</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>14.5</u>				TUBING MATERIAL CODE: <u>HDPE</u>				FIELD-FILTERED: Y ☒ N ☐		FILTER SIZE: <u> </u> µm	
FIELD DECONTAMINATION: PUMP ☒ N ☐ TUBING: Y ☒ N ☐ (replaced)				DUPLICATE: Y ☒ N ☐							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
TW-1	* See col for details *										
MS											
MSD											
REMARKS: <u>* Do under 20% saturation.</u>											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: FDOT SR679	SITE # 4	SITE LOCATION: St. Pete, FL
WELL NO: Tw-2	SAMPLE ID: Tw-2	DATE: 1/16/14

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2.28 feet to 12.28 feet	STATIC DEPTH TO WATER (ft): 6.13	PURGE PUMP TYPE OR BAILER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

$$= (12.28 \text{ feet} - 6.13 \text{ feet}) \times .04 \text{ gallons/foot} = .25 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1306	TOTAL VOLUME PURGED (gallons): 1.05
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1250	.25	.25	.05	6.29	7.59	14.88	2067	1.47	43.1	Clear	Slight
1254	.2	.45	.05	6.23	7.46	20.87	2088	0.81	28.4	"	"
1258	.2	.65	.05	6.22	7.47	21.11	2100	0.60	13.5	"	"
1302	.2	.85	.05	6.22	7.56	21.21	2097	0.52	6.67	"	"
1306	.2	1.05	.05	6.22	7.65	21.25	2104	0.53	3.31	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jaimie Pena / CBI	SAMPLER(S) SIGNATURES: <i>Jaimie Pena</i>	SAMPLING INITIATED AT: 1307	SAMPLING ENDED AT: 1317
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y ☒ N	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP ☒ Y N	TUBING: Y ☒ N (replaced)	DUPLICATE: Y ☒ N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
Tw-2	*See Col for details*								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 1, 2004

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: SR 679	SITE LOCATION: Pineellas County, FL
WELL NO: TW-3	SAMPLE ID: TW-3 DATE: 5/19/14

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 10.90	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (18 feet - 10.90 feet) X 0.04 gallons/foot = 0.28 gallons XS=1.4				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 1.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0956	0.30	0.30	0.05	10.99	9.17	24.94	1260	2.45	0.70	Clear	None
1000	0.20	0.50	0.05	11.00	8.47	23.07	1258	2.16	0.63	Clear	None
1004	0.20	0.70	0.05	11.00	8.08	25.39	1259	2.04	0.62	Clear	None
1008	0.20	0.90	0.05	11.00	7.92	25.29	1260	2.08	0.60	Clear	None
1012	0.20	1.10	0.05	11.02	7.90	25.21	1261	1.99	0.59	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Ramey / A. Escobar		SAMPLER(S) SIGNATURE(S): <i>[Signatures]</i>		SAMPLING INITIATED AT: 1012	SAMPLING ENDED AT: 1018
PUMP OR TUBING DEPTH IN WELL (feet): 13.00		TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y ☒	FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP ☒ N TUBING Y ☒ (replaced)		DUPLICATE: Y ☒			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
TW-3	1	PE	250mL	None	-	-	6010 filtered	APP	200
TW-3	1	PE	250mL	HNO3	-	-	6010	APP	200

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

PID/FID Detector Calibration Log

Project Name: Spot 56679 Project No.: 150929 Date 11/14/14

Calibrated by: Jaime Peña
Instrument: Mfg/Model/Serial No.: Micro F20 I/S # 310

[illegible]

PID/FID Detector Calibration Log

Project Name: 32679 FDOT

Project No.: 150929

Date 1/15/14

Calibrated by: Jaime Peña

Instrument: Mfg/Model/Serial No.: Micro VFD I/S #310

[illegible]

YSI MULTI-PARAMETER FIELD CALIBRATION WORKSHEET

Project Name: FDA SR2679

Date: 1/16/14

Sample Tech.: J. Pena

Model: YSI 556 MPS

Operation Notes:

Meter #: 1441

1) Allow for at least 10 minutes for warmup and DO saturation prior to use.

2) Did the DO membrane require replacement? ☒ Yes / ☐ No

Turb. Meter#: 2975

3) DO Sensor Check.

Shaw SN: 295441

Complete the DO sensor check with the 6000 series unit cold, turned on for the first time of the day.

Go to the RUN mode and watch the DO% output for about a 2 minute period. The unit

should display decreasing values to a stabilization reading at or near ~ 100%, or lower with higher altitude.

In the event that the DO% starts low and climbs to a stabilization value indicates that the sensor requires maintenance.

DO Sensor Operational ?

☒ Yes / ☐ No

Parameter	Readings / Time						Florida Department of Environmental Protection ACCEPTABILITY RANGE:
	Initial prior to calibration	Directly After Calibration	Accept Calibration	Final after sampling	Accept Final Check	Units	
Barometric pressure	765.0 @ 904					mmHg	Monthly independent barometric pressure check. +/- 2.5 mmHg
Temperature	17.07 @ 904	18.11 @ 924	JP	21.48 @ 1558	JP	C	Monthly Check with NIST Thermometer. +/- 0.5 °C of NIST
Dissolved Oxygen	9.02 @ 906	9.64 @ 906	JP	8.83 @ 1555	JP	mg/L	+/- 0.2 mg/L from temperature adjusted 100% DO saturation (See DO/Temp Table 1 below)
Conductivity	896 @ 908	1000 @ 908	JP	1001 @ 1557	JP	mS/cm	+/- 5.0 % of standard
pH 4	2.03 @ 916	4.00 @ 916	JP	4.02 @ 1606	JP	SU	+/- 0.2 SU of standard
pH 7 (Note: use first)	7.02 @ 911	7.00 @ 911	JP	7.03 @ 1601	JP	SU	
pH 10	9.86 @ 923	9.98 @ 923	JP	9.45 @ 1614	JP	SU	
ORP	/	/	/	/	/	mV	+/- 10 mV of standard
Turbidity (1.0)	1.06 @ 925	1.01 @ 925	JP	1.02 @ 1616	JP	NTU	+/- 5% or 2 NTUs of standard (YSI Specifications)
Turbidity (10.0 NTU)	9.34 @ 926	10.00 @ 926	JP	9.98 @ 1617	JP	NTU	+/- 5% of NTU standard

Table 1: DO 100% Saturation vs. Temperature

Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

Calibration Standards

Parameter	Name	Lot #	Description	Color	Expiration
Conductivity	Peterson Env.	117-1000-G	KCl, I ₂ , H ₂ O	Clear	Mar-15
pH 4	Peterson Env.	104-G	pH 4.0 standard	Red	Mar-15
pH 7	Peterson Env.	105-G	pH 7.0 standard	Yellow	Mar-15
pH 10	Peterson Env.	106-G	pH 10.0 standard	Blue	Sep-14
ORP	Pine Env.	1630	Zobell	Green	May-14
Turbidity 1 NTU	AMCO	C361965	SDBC Polymer Spheres	Clear	Aug-14
Turbidity 10 NTU	AMCO	C361966	SDBC Polymer Spheres	Clear	Aug-14

YSI MULTI-PARAMETER FIELD CALIBRATION WORKSHEET

Project Name: SR679 #150929

Date: 1/2/14

Sample Tech.: Chad Ramsey

Model: YSI 556

Operation Notes:

Meter #: 080101443

1) Allow for at least 10 minutes for warmup and DO saturation prior to use.

2) Did the DO membrane require replacement? ☒ Yes ☐ No

T meter # Lanette 20202

3) DO Sensor Check.

Shaw SN: 12943

Complete the DO sensor check with the 6000 series unit cold, turned on for the first time of the day.

Go to the RUN mode and watch the DO% output for about a 2 minute period. The unit

should display decreasing values to a stabilization reading at or near ~ 100%, or lower with higher altitude.

In the event that the DO% starts low and climbs to a stabilization value indicates that the sensor requires maintenance.

DO Sensor Operational? ☒ Yes ☐ No

Parameter	Readings / Time						Florida Department of Environmental Protection ACCEPTABILITY RANGE:
	Initial prior to calibration	Directly After Calibration	Accept Calibration	Final after sampling	Accept Final Check	Units	
Barometric pressure	<u>762.6</u> @ <u>1013</u>					mmHg	Monthly independent barometric pressure check. +/- 2.5 mmHg
Temperature	<u>19.21</u> @ <u>1015</u>	<u>19.21</u> @ <u>1015</u>	<u>CE</u>	<u>19.69</u> @ <u>1215</u>	<u>CE</u>	C	Monthly Check with NIST Thermometer. +/- 0.5 °C of NIST.
Dissolved Oxygen	<u>9.41</u> @ <u>1015</u>	<u>9.27</u> @ <u>1015</u>	<u>CE</u>	<u>9.35</u> @ <u>1217</u>	<u>CE</u>	mg/L	+/- 0.2 mg/L from temperature adjusted 100% DO saturation (See DO/Temp Table 1 below)
Conductivity	<u>999</u> @ <u>1017</u>	<u>1000</u> @ <u>1018</u>	<u>CE</u>	<u>992</u> @ <u>1218</u>	<u>CE</u>	mS/cm	+/- 5.0 % of standard
pH 4	<u>4.12</u> @ <u>1018</u>	<u>4.01</u> @ <u>1018</u>	<u>CE</u>	<u>4.05</u> @ <u>1225</u>	<u>CE</u>	SU	+/- 0.2 SU of standard
pH 7 (Note: use first)	<u>6.91</u> @ <u>1021</u>	<u>7.00</u> @ <u>1021</u>	<u>CE</u>	<u>6.99</u> @ <u>1220</u>	<u>CE</u>	SU	
pH 10	<u>10.08</u> @ <u>1025</u>	<u>10.00</u> @ <u>1025</u>	<u>CE</u>	<u>10.02</u> @ <u>1223</u>	<u>CE</u>	SU	
ORP	<u>/</u> @ <u>/</u>	<u>/</u> @ <u>/</u>	<u>/</u>	<u>/</u> @ <u>/</u>	<u>/</u>	mV	+/- 10 mV of standard
Turbidity (1.0)	<u>1.05</u> @ <u>1030</u>	<u>1.00</u> @ <u>1030</u>	<u>CE</u>	<u>1.01</u> @ <u>1228</u>	<u>CE</u>	NTU	+/- 5% or 2 NTUs of standard (YSI Specifications)
Turbidity (10.0 NTU)	<u>9.95</u> @ <u>1032</u>	<u>10.00</u> @ <u>1032</u>	<u>CE</u>	<u>9.97</u> @ <u>1230</u>	<u>CE</u>	NTU	+/- 5% of NTU standard

Table 1: DO 100% Saturation vs. Temperature

Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

Calibration Standards

Parameter	Name	Lot #	Description	Color	Expiration
Conductivity	Peterson's	117-1000-G	KCl, I ₂ , H ₂ O	Clear	3/15
pH 4	Peterson's	104-G	pH 4.0 standard	Red	3/15
pH 7	Peterson's	105-G	pH 7.0 standard	Green	3/15
pH 10	Peterson's	106-G	pH 10.0 standard	Blue	9/14
ORP	NA	NA	Zobell	White	NA
Turbidity (1.0)	1 NTU	C361965	KCl, I, H ₂ O	Clear	8/14
Turbidity (10)	10.0 NTU	C361966	KCl, I, H ₂ O	White	8/14

YSI MULTI-PARAMETER FIELD CALIBRATION WORKSHEET

Project Name: SR 679 Date: 5/19/2014

Sample Tech.: Chad Ramey / Adam Escobar Model: YSI 556

Operation Notes: Meter #: 08D101441

1) Allow for at least 10 minutes for warmup and DO saturation prior to use. Turb. Meter#: LaMotte 2020e

2) Did the DO membrane require replacement? ☒ Yes ☐ No Shaw SN: 13165

3) DO Sensor Check.

Complete the DO sensor check with the 6000 series unit cold, turned on for the first time of the day.
Go to the RUN mode and watch the DO% output for about a 2 minute period. The unit should display decreasing values to a stabilization reading at or near ~ 100%, or lower with higher altitude.
In the event that the DO% starts low and climbs to a stabilization value indicates that the sensor requires maintenance.
DO Sensor Operational? ☒ Yes ☐ No

Parameter	Readings / Time					Units	Florida Department of Environmental Protection ACCEPTABILITY RANGE:
	Initial prior to calibration	Directly After Calibration	Accept Calibration	Final after sampling	Accept Final Check		
Barometric pressure	<u>766.9</u> @ <u>0915</u>					mmHg	Monthly independent barometric pressure check. +/- 2.5 mmHg
Temperature	<u>19.15</u> @ <u>0918</u>	<u>19.20</u> @ <u>0918</u>	<u>CR</u>	<u>19.22</u> @ <u>1020</u>	<u>CR</u>	C	Monthly Check with NIST Thermometer. +/- 0.5 °C of NIST
Dissolved Oxygen	<u>9.17</u> @ <u>0918</u>	<u>9.31</u> @ <u>0918</u>	<u>CR</u>	<u>9.21</u> @ <u>1020</u>	<u>CR</u>	mg/L	+/- 0.2 mg/L from temperature adjusted 100% DO saturation (See DO/Temp Table 1 below)
Conductivity	<u>971</u> @ <u>0922</u>	<u>1000</u> @ <u>0922</u>	<u>CR</u>	<u>991</u> @ <u>1022</u>	<u>CR</u>	mS/cm	+/- 5.0 % of standard
pH 4	<u>3.98</u> @ <u>0935</u>	<u>4.00</u> @ <u>0935</u>	<u>CR</u>	<u>4.02</u> @ <u>1030</u>	<u>CR</u>	SU	+/- 0.2 SU of standard
pH 7 (Note: use first)	<u>6.81</u> @ <u>0925</u>	<u>7.00</u> @ <u>0925</u>	<u>CR</u>	<u>6.93</u> @ <u>1025</u>	<u>CR</u>	SU	
pH 10	<u>9.78</u> @ <u>0930</u>	<u>10.00</u> @ <u>0930</u>	<u>CR</u>	<u>9.99</u> @ <u>1028</u>	<u>CR</u>	SU	
ORP	<u>/</u> @ <u>/</u>	<u>/</u> @ <u>/</u>	<u>/</u>	<u>/</u> @ <u>/</u>	<u>/</u>	mV	+/- 10 mV of standard
Turbidity (1.0)	<u>0.95</u> @ <u>0920</u>	<u>1.00</u> @ <u>0920</u>	<u>CR</u>	<u>0.99</u> @ <u>1032</u>	<u>CR</u>	NTU	+/- 5% or 2 NTUs of standard (YSI Specifications)
Turbidity (10.0 NTU)	<u>9.97</u> @ <u>0921</u>	<u>10.00</u> @ <u>0921</u>	<u>CR</u>	<u>9.98</u> @ <u>1033</u>	<u>CR</u>	NTU	+/- 5% of NTU standard

Table 1: DO 100% Saturation vs. Temperature

Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

Calibration Standards

Parameter	Name	Lot #	Description	Color	Expiration
Conductivity	Peterson Env.	117-1000-G	KCl, I ₂ , H ₂ O	Clear	Mar-15
pH 4	Peterson Env.	104-G	pH 4.0 standard	Red	Mar-15
pH 7	Peterson Env.	105-G	pH 7.0 standard	Yellow	Mar-15
pH 10	Peterson Env.	106-G	pH 10.0 standard	Blue	Sep-14
ORP	Pine Env.	1630	Zobell	Green	May-14
Turbidity 1 NTU	AMCO	C361965	SDBC Polymer Spheres	Clear	Aug-14
Turbidity 10 NTU	AMCO	C361966	SDBC Polymer Spheres	Clear	Aug-14