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March 4, 2016

Ms. Dilan Roe
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**Subject: RO0000289
SUBSURFACE INVESTIGATION REPORT
FORMER FUEL STORAGE AND HISTORICAL
ASPHALT REFINERY OPERATIONAL AREAS
OWENS-BROCKWAY GLASS CONTAINER FACILITY.
3600 ALAMEDA AVENUE, OAKLAND, CALIFORNIA.**

Dear Ms. Roe:

Owens-Brockway Glass Container Corporation is pleased to submit the attached Subsurface Investigation Report for the above site.

I declare under penalty of perjury that the information and recommendations contained in the attached report are true and correct to the best of my knowledge.

If you need further information feel free to call me at (567) 336-8682.

Sincerely,

Mark Tussing.
Regional EHS Manager

**SUBSURFACE INVESTIGATION REPORT FORMER FUEL STORAGE
AND HISTORICAL ASPHALT REFINERY OPERATIONAL AREAS**

**OWENS-BROCKWAY
GLASS CONTAINER FACILITY
3600 ALAMEDA AVENUE, OAKLAND, CALIFORNIA**



CKG Environmental, Inc.

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A Report Prepared for:

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Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Ste. 250.
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**SUBSURFACE INVESTIGATION REPORT FORMER FUEL STORAGE
AND HISTORICAL ASPHALT REFINERY OPERATIONAL AREAS**

**OWENS-BROCKWAY GLASS CONTAINER FACILITY,
3600 ALAMEDA AVENUE, OAKLAND, CALIFORNIA**

March 4, 2016

Prepared by:


Christina J. Kennedy R.G.



Principal

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1.0 EXECUTIVE SUMMARY

The Owens-Brockway glass manufacturing facility is located at 3600 Alameda Avenue in Oakland, California. The site is located to the north of the Oakland Estuary with Fruitvale Avenue to the west, a Home Depot to the east and residences to the north. Onsite facilities include the closed glass manufacturing plant, warehouses, offices and two former underground fuel storage tank areas.

Since 1986 a number of petroleum hydrocarbon recovery or remediation measures have been completed at the site. These include removing USTs, installing free product recovery wells, and excavating suspected source areas. Additional measures including installing a groundwater treatment biobarrier, and completing additional source removals are currently being implemented. Property research conducted in May 2015 as part of a Phase I Environmental Site Assessment for the property revealed that prior to the glass manufacturing plant being constructed the property was occupied by an asphalt refinery. A subsurface investigation was completed in December 2015 and January 2016 to assess the extent of petroleum hydrocarbon impacts associated with the historical asphalt refinery as well as other operational areas. A total of 75 soil borings were installed with 189 soil samples and 20 groundwater samples collected. The results of the investigation are as follows:

- Five new areas of soil impacted with petroleum hydrocarbons exceeding 100 mg/kg in the upper ten feet were identified at the site. These areas total approximately 46,810 tons of material.
- Soil and groundwater samples collected below 10 feet are also impacted with petroleum hydrocarbons. Soil and groundwater impacts are collocated.
- Deeper soil borings installed as part of the biobarrier completion indicate that in the most highly impacted area (vicinity of Excavation E, Plate 2) subsurface petroleum hydrocarbon impacts extend as deep as 45 feet below grade.

- PCBs, dioxins, and furans were detected in soil samples collected in the vicinity of a former PCB release in the basement of the glass furnace building. Owens-Brockway will work with USEPA Region IX to address concerns associated with PCBs, dioxins and furans.
- Analyses of VOCs and SVOCs indicate that relatively low concentrations of VOC and SVOC constituents that are found in natural crude oil occur sporadically in the highly impacted samples that were analyzed. There is no indication that manmade additives such as benzene, methyl-tert-butyl ether or other lead scavengers are present in the subsurface or were present in the original petroleum hydrocarbon products at the time of their release. This finding is consistent with VOC and SVOC analyses conducted in soil and groundwater samples from the site in previous investigations, and is consistent with the notion that the petroleum hydrocarbons are associated with the historic asphalt refinery.
- Analyses for Leaking Underground Fuel Tank (LUFT) metals indicate that the metals detected in the subsurface occur at concentrations that are natural for the area or if not natural, they do not occur at concentrations that exceed residential screening levels.

The findings of this investigation will be used to implement the soil cleanup plan as outlined in the *Work Plan for Additional Targeted Excavation and Subsurface Investigation, Former Fuel Storage and Historical Asphalt Refinery Operational Areas, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated December 2, 2015*. The work plan was prepared to address known petroleum hydrocarbon contamination at the time of writing but was written to allow expansion of the remedy to new areas of petroleum hydrocarbon impact if discovered. Owens-Brockway is presently completing site shutdown activities such as removing glass forming equipment, cleaning buildings, and dismantling the furnaces. Soil excavation work cannot commence until after the furnaces have been removed. Because of the large volume of material to be removed and the fact that much of it occurs under existing buildings it is probable that Owens-Brockway may complete the work in phases, commensurate with demolition plans. Owens-Brockway will provide a site remediation schedule to Alameda County as soon as it is available.

2.0 INTRODUCTION

The following report presents the results and conclusions of a subsurface investigation performed to evaluate the extent of petroleum hydrocarbon impacts associated with a former asphalt refinery that was located at the property. The work was performed in general accordance with CKG's *Work Plan for Additional Targeted Excavation and Subsurface Investigation, Former Fuel Storage and Historical Asphalt Refinery Operational Areas, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated December 2, 2015*, and with additional analyses as requested in the ACEH conditional approval letter dated December 15, 2015. Deviations from the proposal and conditional approval are discussed below.

Work in addition to that described in the December 2, 2015 work plan was also completed and is reported in this document. This work includes additional soil borings installed as part of the groundwater treatment trench (biobarrier) installation (*Revised Corrective Action Plan, Targeted Excavations and Groundwater Treatment Trench, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated January 17, 2014.*) and additional borings installed at the request of Owens-Brockway to support a potential future property transaction.

2.1 SITE DESCRIPTION

The Owens-Brockway glass manufacturing facility is located at 3600 Alameda Avenue in Oakland, California, (Plate 1). The site is located to the north of the Oakland Estuary with Fruitvale Avenue to the west, a former retail center to the east and residences to the north. Onsite facilities include the closed glass manufacturing plant, warehouses, offices and two former underground fuel storage tank areas, (Plate 2).

Western UST Area

One UST site was located on the west side of the plant and included three former USTs, which were used to contain fuel oil. When the USTs were removed fuel oil was observed to have been released to the subsurface. Owens-Brockway excavated impacted soil at the time of USTs removal, and has excavated additional petroleum hydrocarbon impacted soil in 2011 and 2014. In May 2015 it was discovered that an asphalt refinery occupied the Western UST Area in the

early 20th century, prior to the glass plant being constructed. The former asphalt refinery was located at the southwest corner of the property and underlays the more recent fuel oil storage areas and parts of the western warehouse and factory floor as shown on Plate 3. The majority of the subsurface investigation discussed in this report was completed to assess the vertical and lateral distribution of petroleum hydrocarbons associated with this historical asphalt refinery.

Central UST Area

The second UST area was located near the south- central portion of the plant adjacent to the compressor building. Originally there were four USTs in the area. When they were removed and replaced by two new USTs a gasoline release to the subsurface was observed. Owens-Brockway excavated impacted soil at the time the USTs were removed. The two new USTs were removed in 1994. A 2009 subsurface investigation revealed that diesel fuel had been released at the location of the former USTs. As much diesel impacted soil as possible was removed from this location in 2011 (Plate 2). The excavation extent was limited due to the presence of building footings and subsurface utilities. At the request of Owens-Brockway soil borings were installed in this area to assess the extent of residual diesel impacts.

PCB Release Area in Plant Basement

In 1988 a glass leak at the C furnace caused molten glass to engulf a bank of PCB containing transformers located adjacent to the furnace in the basement of the glass furnace building. The resulting fire caused a release of PCB, dioxins and furans to the basement walls, floor, and superstructure. The incident was reported to the United States Environmental Protection Agency (EPA) and cleanup oversight was provided by the State of California department of Toxic Substances Control (DTSC). The basement walls, floors and overhead structures were scrubbed until either PCBs were not detected or they were below the risk based threshold determined to be protective of industrial workers. Because the cleanup goal could not be met at one location on the basement wall, the wall was encapsulated with an epoxy sealant. The DTSC and EPA granted closure for the PCB release in 1992. At the request of Owens-Brockway soil borings were installed in the former PCB release area to assess the potential that PCBs may have migrated to soil and groundwater.

3.0 SUBSURFACE INVESTIGATION

Between December 28, 2015 and January 15, 2016, CKG advanced a total of 75 soil borings at the Site. The borings were drilled by Gregg Drilling & Testing, Inc. (Gregg), a California licensed drilling contractor (C-57 license No. 485165) utilizing a Geoprobe™ direct push tool. The soil borings were located in three general areas of investigation: (1) in the location of the historical asphalt refinery, (2) near the former diesel release and Excavation D, and (3) in the glass melting furnace building basement near the oil water separator and a former PCB release adjacent to the C Furnace. The following sections describe field methods used during the investigation, subsurface conditions, and sampling rationale from each of the areas of investigation.

3.1 FIELD METHODS

Prior to initiating field work all proposed soil boring locations were cleared of subsurface utilities by using a utility locator and by referring to plant drawings to the extent they were available. Further, the upper five feet of each boring were advanced using 2-inch diameter hand auger equipment to clear for subsurface obstructions or utilities. The remainder of each boring was then advanced using direct push Geoprobe™ equipment with a 2-inch outer core barrel diameter, and inner core liners having a diameter of approximately 1¼ inches. Soil cores were recovered in acetate liners with approximate 4-foot lengths. Soils were logged using the Unified Soils Classification System (USCS) visual and manual methods, and described using Munsell Soil Color Chart color classifications. Additionally, the soils were screened using a flame ionization detector (FID) to measure the presence of hydrocarbons and organic vapors. Descriptions of encountered soils are presented in the boring logs included in Appendix A. After achieving total depth, each borehole was backfilled with neat cement grout and completed with concrete at the surface. Soil borings were installed and backfilled in accordance with a drilling permit issued by the Alameda County Public Works Agency.

3.2 SOIL SAMPLE COLLECTION AND ANALYSES

Specific soil samples were selected for laboratory analysis based on the presence of discoloration, hydrocarbon odor, or elevated FID measurements. In addition, samples were collected from areas that appeared to be free of petroleum hydrocarbon to confirm that the extent of petroleum hydrocarbon impact was bounded. Soil samples were collected into laboratory supplied glass containers, labeled, and then placed in an insulated ice-cooled chest.

Soil samples were transported under chain of custody protocols to McCampbell Analytical, a State-of-California certified analytical laboratory located in Pittsburg, California. Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as motor oil (TPHmo) by United States Environmental Protection Agency (USEPA) Method 8015. Soil samples collected from the building basement near the former C Furnace were also analyzed for polychlorinated biphenyls (PCBs) by USEPA Method 8082, and for dioxins and furans by USEPA Method 1613. Upon receipt of analytical results 25 of the most heavily impacted samples were selected for further analysis for volatile organic compounds (VOCs) by EPA Method 8260B, semivolatile organic compounds (SVOCs) by EPA Method 8270C, leaking underground fuel storage tank (LUFT) metals including cadmium (Cd), chromium (Cr), lead (Pb), nickel (Ni) and zinc (Zn) by EPA Method 6020. Table 1 provides a sample log outlining the samples collected and analyses performed.

3.3 GROUNDWATER SAMPLE COLLECTION

Groundwater samples were collected for laboratory analyses based on the presence of hydrocarbon impacts observed in the borings. Groundwater samples were collected into laboratory supplied bottles using disposable polyethylene bailers. Groundwater samples were labeled, placed in an insulated ice-cooled chest, and transported to McCampbell Analytical Laboratory under chain of custody protocols. Groundwater samples were analyzed for TPHg, TPHd, and TPHmo by USEPA Method 8015, and samples collected from the glass melting furnace building basement near the former C Furnace were also analyzed for PCBs by USEPA Method 8082, and for dioxins and furans by USEPA Method 1613.

3.4 SUBSURFACE CONDITIONS

Soils encountered beneath the Site are primarily fine-grained, and consist of silts, clays, sandy silts, or sandy clays. Although sand and gravel stringers are occasionally found within the fine-grained soils, they are not laterally extensive or generally interconnected.

The top of the first water bearing zone is encountered between 13 and 18 feet below ground surface (bgs.), and ranges in thickness from one to seven feet bgs. Inside the building where ground surface is elevated several feet by artificial fill and concrete, groundwater was typically encountered at 22-23 feet bgs. In the building basement where ground surface is lowered by 10 to 15 feet, groundwater was immediately encountered after coring through the concrete foundation.

3.5 HISTORICAL ASPHALT REFINERY OPERATIONAL AREA

Initially, 28 borings were advanced to assess the historical refinery area, with 24 of the borings located in the northern section (B-48 through B-71), and 4 of the borings located in the southern section (B-72 through B-75) as shown on Plate 4. The locations of these borings were selected based on the 1912 Sanborn Fire Insurance Map that showed the approximate locations of historical refinery facilities.

As shown on Plate 3, the northern extent of impacts was initially anticipated to be defined by perimeter borings B-56 through B-62, and the eastern extent of impacts was to be defined by perimeter borings B-65, B-69, and B-70 based on the refinery structures identified on the 1912 Sanborn Map. Elevated hydrocarbon impacts were present in these perimeter borings, and 26 additional step out borings were advanced in the northerly direction and 6 additional step out borings were advanced in the easterly direction (total 60 borings) as shown on Plate 4. Step out boring locations were spaced approximately 50 feet apart using the following rationale:

- In B-56, hydrocarbon impacts were observed between 15 and 20 feet bgs. Step out borings B-56A and B-56B were advanced 50 and 100 feet to the north, respectively, to evaluate the northerly extent of impacts. Hydrocarbon impacts were not observed in either step out boring.
- In B-57, hydrocarbon impacts were observed between 8 and 20 feet bgs. B-57A was located 50 feet north of B-57, and impacts were only observed in the upper 5 feet bgs. B-57B was located 50 feet north of B-57A, and a slight odor was observed in the upper 5 feet bgs. B-57B appears to define the northern extent of impacts.
- In B-58 and B-59, hydrocarbon impacts were mainly observed from 18 to 20 feet bgs. One step out boring (B-58A) was performed north of B-58. B-58A was located 100 feet north of B-58, at the approximate midpoint between B-57B and B-60B. Only a discrete interval of slightly impacted soils was observed in B-58A from 3 to 4 feet bgs. As such, this appears to define the extent of impacts in this direction.
- In B-60, hydrocarbon impacts were mainly observed from 13 to 20 feet bgs. B-60A was advanced approximately 150 feet north of B-60 to delineate the northern extent of impacts. Impacts were present in B-60A from 15 to 20 feet bgs, so additional step out borings B-60B and B-60C were advanced to the north by approximately 50 and 100 feet, respectively. Hydrocarbon impacts were present in B-60B from 18 to 20 feet bgs, while no impacts were observed in B-60C.
- In B-61 and B-62, hydrocarbon impacts were mainly observed from 15 to 20 feet bgs. Step out borings B-61A and B-62A, B-61B and B-62B, and B-61C and B-62C were placed 50, 100, and 150 feet north of these borings, respectively. The initial intent was to drill and sample B-61B and B-62B first and observe whether evidence of impacts was present. If no impacts were observed then B-61A and B-62A would be advanced, but if impacts were observed then B-61C and B-62C would be advanced. Impacts were present in both B-61B and B-62B, and as such, further step out borings were performed and B-61A and B-62A were omitted. North of B-61B, step out borings B-61C, B-61D, and B-61E were advanced and were spaced in approximate 50 foot intervals. North of B-62B, step out borings B-62C, B-62D, B-62E, and B-62F were advanced and also had an approximate 50-foot spacing. Impacts were observed in B-61C, B-61D, B-62C, B-62D, and B-62E. No impacts were observed in northernmost step out borings B-61E and B-62F, and these locations appear to define the northern extent of impacts.
- B-65 was originally intended to be the northeastern-most boring, and hydrocarbon impacts were observed near ground surface and also from 15 to 23 feet bgs. As such, step out borings were performed to the north and east as described below.

- B-65C and B-65D were drilled 50 and 100 feet north of B-65, respectively. Hydrocarbon impacts were observed in B-65C from 15 to 20 feet bgs. No impacts were observed in B-65D. Additional step out borings B-65F through B-65L were advanced to delineate the extent of impacts to the northeast of B-62E. No evidence of impacts was observed in B-65F or B-65G, however moderate impacts were observed between 15 and 20 feet in B-65H and B-65I. Additional step out borings B-65J, B-65K, and B-65L were advanced 100 feet to the east, north, and northeast, respectively, and no impacts were observed in any of these borings.
- B-65A and B-65B were drilled 50 and 100 feet east of B-65, respectively. Hydrocarbon impacts were observed in the upper 5 feet of B-65A, but decreased significantly 50 feet to the east in B-65B.
- In B-70, hydrocarbon impacts were observed between 15 and 24 feet bgs, and additional step out borings B-70A, B-70B, B-70C, and B-70D were advanced 50, 100, 150, and 200 feet to the east, respectively. In B-70A, hydrocarbon impacts were present between 15 and 20 feet bgs. In B-70B, impacts were also present from 15 to 20 feet bgs, but at seemingly lower levels than in B-70A. In B-70C, impacts were present again, from 5 to 20 feet bgs. In B-70D, no impacts were present.

In the southern section of the historical refinery, previous investigation activities including soil borings, and monitoring wells. In addition, soil excavations had been performed. As such, only four borings (B-72 through B-75) were initially proposed for this area. One step out boring was advanced to the west of B-72 (B-72A) to obtain a data point between B-72 and former boring B-23. Hydrocarbon impacts were noted in each of the soil borings performed in the southern section of the historical refinery.

3.6 DIESEL RELEASE OPERATIONAL AREA

Four borings (B-85 through B-88) were advanced to assess the area surrounding the former diesel release. B-85 through B-87 were located on the eastern side of the former Excavation D, and no impacts were observed in either B-85 or B-86. Soil samples were collected from B-85 and B-86 from the top of the first water bearing zone (approximately 15 feet bgs), and also from the bottom of the borings at 20 feet bgs. Additionally, one groundwater sample was collected from B-85. In B-87, no hydrocarbon odor was observed, however an interval of partially discolored soils was observed from approximately 8 to 10 feet bgs. As such, soil samples were collected from B-87 from the partially discolored interval and from the bottom of the boring.

One soil boring (B-88) was located on the western side of the former excavation D. In B-88, soils became discolored and hydrocarbon odor was observed, beginning at 11 feet bgs and continuing to the total depth of the boring at 20 feet bgs. Soil samples were collected from B-88 at the depths of 11, 15, and 20 feet bgs.

3.7 PCB/DIOXIN/FURAN RELEASE AREA

Seven soil borings (B-79 through B-84) were advanced in the basement area to assess for impacts associated with the former PCB containing transformer near Furnace C, (Plate 4). Soil borings in the glass melting furnace building basement were advanced by coring through the concrete floor, and then by using a 2-inch diameter hand auger to a total depth of five feet bgs or until encountering refusal. The concrete ranges in thickness from eight inches to 1.5 feet, and is underlain by a coarse-gravel base layer. After coring through the brick or concrete at each location, confined groundwater from beneath the building came up out of the borings and drained into the on-site wastewater treatment piping.

Borings B-79, B-80, and B-81 were located on the eastern side of the former C Furnace, and borings B-82A, B-82B, B-83, and B-84 were located on the western side of the former C Furnace. These borings were to investigate the vicinity of former PCB containing transformers that were known to have caught fire. Soil samples from these borings were collected from immediately below the concrete floor, and from the total depth of each boring. Also, groundwater samples were collected from B-80 and B-83. In addition to being analyzed for total petroleum hydrocarbons as diesel, these soil and groundwater samples were analyzed for PCBs and dioxins and furans.

3.8 FLOOR TRENCHES OPERATIONAL AREA

Borings B-76 through B-78 were located near the oil/waster separator (OWS) and associated subsurface piping, and were advanced to depths ranging from 3 to 5 feet, (Plate 4). Hydrocarbon impacts were observed in each boring. One soil sample was collected from the total depth of each boring, and a groundwater sample was collected from B-77. All soil and groundwater samples were analyzed for total petroleum hydrocarbons.

3.9 BIOBARRIER SOIL BORINGS

On August 24 through 26, 2015, CKG advanced six soil borings B-42 through B-47 at the Site near the historical asphalt refinery, (Plate 4). B-42 through B-47 were drilled by Enprobe Environmental Direct Push & Drilling Services (Enprobe), a California licensed drilling contractor (C-57 license No. 777007). The upper five feet of each boring was advanced using 2-inch diameter hand auger equipment. The remainder of each boring was then advanced using dual-tube direct push Geoprobe™ equipment with a 2-1/8-inch outer core barrel diameter, and inner core liners having a diameter of approximately 1-3/4 inches. Soil cores were recovered in acetate liners with approximate 5-foot lengths. Each boring was advanced to a total depth of 50 feet bgs to assess the vertical extent of impacts in the former asphalt refinery area. Grab groundwater samples were collected from the borings, and were analyzed by McCampbell Analytical for TPHg, TPHd, and TPHmo by USEPA Method 8015. Following their completion, each boring was backfilled with neat cement grout and completed at the surface with concrete.

B-42 was located near the former subsurface brick-lined oil bunker, and was intended to assess the vertical extent of impacts in this area. B-43 through B-47 were located along the southern boundary of the property, and were located along the biobarrier air injection well transect. Soil data collected from B-43 through B-47 were used to help finalize the design of the biobarrier air injection wells.

Moderate to significant hydrocarbon impacts were observed in the upper 10 to 30 feet bgs in B-42 through B-46, consistent with other impacts associated with the historical asphalt refinery across the Site. Deeper hydrocarbon impacts near 40 feet bgs were observed in B-42, but were not present in any of the other borings. No hydrocarbon impacts were present in B-47, and this boring appears to define the southeastern extent of impacts along the biobarrier air injection well transect.

4.0 DISCUSSION OF FINDINGS

The following describes the results of the subsurface investigation performed at the Owens-Brockway Glass Container facility in Oakland, California. Table 1 provides a sample log summarizing the purpose of each soil boring conducted, the depths of installation and the analyses completed. Comparisons are made between the data and appropriate regulatory standards and risk based screening levels where they are available. Sample data is presented in Tables 2-5. Analytical laboratory reports are included in Appendix C. Sample locations and pertinent data are presented on Plates 4-7. For the purposes of understanding the distributions of petroleum hydrocarbons in the subsurface CKG divided the elevations of interest into three groups. Soil data from surface to a depth of 10 feet below grade are examined because this is the depth that would have to be removed to meet the remediation objective outlined in the 2015 work plan. Impacts from 10-15 feet and 15-20 feet below grade are plotted to document conditions that will remain at the site following completion of the remedy. Appendix B contains Plates illustrating the distributions of petroleum hydrocarbons in soil and groundwater.

4.1 HISTORICAL ASPHALT REFINERY OPERATIONAL AREA

The soil borings installed to assess the historical asphalt refinery operational area include the six installed as part of the biobarrier installation, and the 57 installed in December 2015 and January 2016. The data obtained from these borings is sufficient to demonstrate the lateral extent of petroleum hydrocarbons within the upper 10 feet of soil and as deep as 20-25 feet in most of the area. Some deeper borings at very highly impacted areas show that heavier petroleum hydrocarbons have migrated down into groundwater as much as 40-45 feet below grade. The following presents more detailed discussions of the chemical constituent distributions.

4.1.1 Petroleum Hydrocarbons (gasoline, diesel and motor oil)

Petroleum hydrocarbons quantified as gasoline diesel and motor oil are widespread in soil and groundwater at the site, (Tables 2a and 2b). The concentrations of TPHg, TPHd and TPHmo from the three depth ranges (0-10 feet, 10-15 feet, and 15-20 feet) below grade are provided in Appendix B (Plates B-1 through B-9). Plate 5 illustrates a compilation of all petroleum hydrocarbons detected in soil from 0-10 feet below grade. Also overlain on Plate 5 are features

associated with the historical asphalt refinery as observed on the 1912 Sanborn Map. Plate 7 illustrates the distribution of petroleum hydrocarbons in groundwater.

A number of structures associated with the historical asphalt refinery coincide with the highest concentrations of petroleum hydrocarbons. For example, the “coal oil and distillate tanks” located on the east side of the former asphalt refinery coincide with higher TPHg and TPHd impacts in the vicinity of borings B70, B71 and B65. This is consistent with the lighter fraction distillates that were likely stored at those locations. Similarly, elevated petroleum hydrocarbon impacts occur in the vicinity of borings B49 and B50 which are located near former asphalt stills. Other areas with elevated petroleum hydrocarbons are not associated with historical refinery structures observed on the 1912 Sanborn Map but it should be noted that the refinery operated for a number of years after the map was made and it is likely that the refinery operations expanded beyond what is presently noted on the 1912 map and/or spillage of product from these operations may have occurred.

4.1.2 Volatile and Semivolatile Organic Constituents (including MTBE and lead scavengers).

Selected samples were analyzed for VOCs and SVOCs. The samples with the highest TPH results were selected for further analysis because these would represent the worst case scenario regarding the potential for other chemical constituents to be present in the subsurface. Because the sample selection was after TPH data was received and reviewed, the analytical holding times for the VOC and SVOC analyses were exceeded. The samples were held in refrigerated storage at the analytical laboratory so potential losses due to volatilization should be minimal.

A number of VOCs and SVOCs were detected in the soil samples as summarized on Table 3. The highest concentrations of each constituent is listed below along with the Regional Water Quality Control Board (RWQCB) residential environmental screening levels (ESLs) updated December 2013, (Table B-1 shallow soil for residential use where groundwater is not a drinking water source); and the EPA Regional Screening Levels (RSLs) updated November 2015. All the constituents detected occur naturally in petroleum hydrocarbons or coal tar.

Constituent	Highest Concentration mg/kg	ESL mg/kg	RSL mg/kg	Source
n-Butyl benzene	3.9	NA	3900	Natural in petroleum hydrocarbons
Isopropyl benzene	7.3	NA	1900	Natural component of coal tar
n-Propyl benzene	8.4	NA	NA	Natural component of coal tar
sec-Butyl benzene	4.7	NA	7800	Natural in petroleum hydrocarbons
1,2,4-Trimethylbenzene	0.77	NA	58	Natural component of coal tar
1,3,5-Trimethylbenzene	0.76	NA	780	Natural component of coal tar
Ethylbenzene	0.21	4.7	5.8	Natural component of coal tar and petroleum
Fluorene	1.6	8.9	NA	Natural component of coal tar
Naphthalene	19	3.1	NA	Natural component of coal tar and petroleum
2-Methylnaphthalene	41	0.25	NA	Natural in petroleum hydrocarbons
Phenanthrene	3.4	11	NA	Natural result of burning coal
4-Isopropyl toluene	0.72	NA	NA	Natural in petroleum hydrocarbons

NA = not available

Bold result exceeds the ESL

The borings that contain the highest concentrations of the constituents listed above occur mainly in the vicinity of specific asphalt refinery features as shown on Plate 5, in Table 3 and summarized below:

- Former coal oil and distillate tanks (B-65, B-69)
- Former asphalt stills (B-50, B-57)
- Former large oil storage tanks (b-73)

4.1.3 Polychlorinated Biphenyls

A total of 24 samples from the petroleum hydrocarbon investigation area were selected for analysis of PCBs. Soil samples were selected from soils with the highest petroleum hydrocarbon concentrations. No samples contained PCBs above the laboratory reporting limits.

4.1.4 Leaking Underground Fuel Tank (LUFT) Metals

A total of 24 samples were selected for analysis of LUFT metals based on having high petroleum hydrocarbon concentrations. The LUFT metals include cadmium, (Cd), chromium (Cr), lead (Pb), nickel (Ni), and zinc, (Zn). Results of the metals analyses are summarized on Table 4 and were compared to the ESLs. All metals were detected in the samples analyzed but none exceed the residential ESL.

4.2 DIESEL RELEASE OPERATIONAL AREA

A total of four soil borings were installed to assess the potential that significant residual diesel impacts occur outside the former excavation area.

4.2.1 Petroleum Hydrocarbons (gasoline, diesel and motor oil)

TPHd and TPHmo was detected at concentrations above the ESL of 100 mg/kg only in B-88 at a depth of 10-15 feet as shown on Plate 5 and in Appendix B. B-88 was located in the ramp between the former diesel tank excavation and the glass melting furnace building basement. The residual impacts are deeper than 10 feet below grade which is the greatest depth that is planned for soil remediation. The highest TPH concentration was detected in B-88-15' which was selected for additional analyses.

4.2.2 Volatile and Semivolatile Organic Constituents (including MTBE and lead scavengers).

No VOCs or SVOCs were detected above the laboratory reporting limit in B-88-15'.

4.2.3 Polychlorinated Biphenyls

No PCBs were detected above the laboratory reporting limit in B-88-15'.

4.2.4 Leaking Underground Fuel Tank (LUFT) Metals

Results of the metals analyses are summarized on Table 4 and were compared to the ESLs. All metals detected in B-88-15' were below the residential ESLs.

4.3 PCB/DIOXIN/FURAN RELEASE AREA

A total of seven soil borings were installed to assess the potential that PCBs dioxins and furans may have migrated to soil and groundwater in the vicinity of a 1988 PBC release resulting from a glass furnace leak and a subsequent fire in the glass melting furnace building basement.

4.3.1 Petroleum Hydrocarbons (gasoline, diesel and motor oil)

Only TPHd was analyzed in the samples collected. TPHd exceeded the ESL in all samples collected. (Table 2a) as shown on Plate 5 and in Appendix B. The TPH concentrations are consistent with those observed in other borings to the north, south and east. It is probable the petroleum hydrocarbons in the subsurface are a result of releases from the former lube oil tank as well as from the historical asphalt refinery operations.

4.3.2 Polychlorinated Biphenyls/Dioxins/Furans

PCBs were detected above the ESL in five of the seven soil samples analyzed. The highest concentration detected was 2900 mg/kg. PCBs are present in the soil as a result of the 1988 glass leak/fire and release. PCBs are regulated under 40 CFR Chapter 1, Subchapter R, the Toxic Substances Control Act (TSCA) Part 761. TSCA is regulated by the EPA. In accordance with 40 CFR 761.3 the presence of PCBs in the soil in this area meets the definition of PCB Remediation Waste. Owens-Brockway has already been in contact with USEPA Region 9 regarding the PCB release. The distribution of PCBs is illustrated on Plate 6 and summarized in Table 5

Dioxins and furans result from the incomplete combustion of PCBs or other materials. Dioxins and furans were detected in the soil samples collected from the former area of the fire as summarized on Table 5. Only a few of the many dioxins and furans that occur have a regulatory standard as follows:

Hexachlorodibenzo-p-dioxin mixture (HCPDD)	RSL = 0.0001 mg/kg	or 1 pg/g
2,3,7,8 TCDD	RSL = 0.00000048 mg/kg	or 0.46 pg/g
	ESL = 0.00000046 mg/kg	or 0.46 pg/g
Dibenzofuran	RSL = 73 mg/kg	or 73,000,000 pg/g
Furan	RSL = 73 mg/kg	or 73,000,000 pg/g
Tetrahydrofuran	RSL = 18,000 mg/kg	1.8 x 10 ¹⁰ pg/g

In summary, based on the above, dioxins detected at the site may exceed the ESL and RSLs, furans may not. Dioxins and furans will be managed with the PCBs under oversight by the EPA.

4.4 FLOOR TRENCHES OPERATIONAL AREA

A total of three soil borings were installed to assess the potential that significant petroleum hydrocarbon impacts might occur associated with the OWS or the floor trenches.

4.4.1 Petroleum Hydrocarbons (gasoline, diesel and motor oil)

TPHd and motor oil was detected at concentrations above the ESL of 100 mg/kg only in B-77-5' as shown on Plate 5 and in Appendix B. B-77 was located in the basement which is already at least 10 feet below grade. The highest TPH concentrations was detected in B-77-5' as summarized on Table 2.

4.5 DEVIATIONS FROM THE WORK PLAN AND APPROVAL LETTER.

The subsurface investigation was completed in general agreement with the December 2, 2015 work plan. CKG also generally complied with the conditions outlined in the ACEH letter dated December 15, 2015. Not all conditions were met mainly because the extent of subsurface impacts were much larger than anticipated, so CKG elected to utilize the resources available to focus on locating the extent of petroleum hydrocarbon impacts. As a result, the scope of work was modified. Overall substantially more samples were collected and the requested analyses are not exactly as stated in the ACEH letter. The following summarizes the changes:

- 35-45 soil borings were originally planned. A total of 75 soil borings were actually installed with 189 soil samples and 11 groundwater samples collected. In addition, another nine groundwater samples were collected in September, 2015 when the biobarrier was installed.
- ACEH requested VOCs (plus BTEX, MTBE and other lead scavengers), SVOCs, PCBs and LUFT metals to be analyzed in soil collected from deeper borings and VOCs in groundwater. As an alternative CKG selected 24 soil samples with the highest concentrations of petroleum hydrocarbons detected to be analyzed for the additional constituents. These samples represent the worst case scenarios regarding potential impacts by these constituents of interest. If these constituents occurred in soil it could be presumed that they would also occur in groundwater.
- ACEH requested that up to four borings be extended deeper than 20 feet north of the basement. Due to time and cost constraints this did not occur. There were however, six borings installed while the biobarrier was being constructed that extended to a depth of 50 feet below grade. These borings are located in the downgradient part of the site, and one (B-42) was installed in what appears to be the most highly impacted area at the facility (excavation E a former crude oil storage bunker, Plate 2).
- ACEH requested that silica gel cleanup not be used by the analytical laboratory. CKG did not clearly relay this request to the analytical laboratory and silica gel cleanup was performed. CKG will work with the analytical laboratory in the future to assure that this does not happen again. The change will be applied to future groundwater sampling as well.

5.0 PROPOSED SOIL REMEDIATION PLAN

Based on the data generated by this subsurface investigation as well as previous investigations, it is possible to outline areas of impacted soil in the upper 10 feet of the site that should be removed as outlined in the *Work Plan for Additional Targeted Excavation and Subsurface Investigation, Former Fuel Storage and Historical Asphalt Refinery Operational Areas, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated December 2, 2015*. These areas include Excavation A as outlined in the work plan and excavations F, G, H, I and J per this subsurface investigation and shown on Plate 8.

Based on the square footage of the excavation areas the following summarizes the estimated tonnage of material to be removed:

Excavation A 30,600 ft ² to a depth of 10 feet = 11,333 yards ³ at 1.5 tons per yard ³ =	17,000 tons
Excavation F 19,500 ft ² to a depth of 10 feet = 7,222 yards ³ at 1.5 tons per yard ³ =	10,883 tons
Excavation G 19,200 ft ² to a depth of 10 feet = 7,111 yards ³ at 1.5 tons per yard ³ =	10,667 tons
Excavation H 7150 ft ² to a depth of 10 feet = 2,648 yards ³ at 1.5 tons per yard ³ =	3,972 tons
Excavation I 3400 ft ² to a depth of 10 feet = 1260 yards ³ at 1.5 tons per yard ³ =	1,890 tons
Excavation J 4100 ft ² to a depth of 10 feet = 1518 yards ³ at 1.5 tons per yard ³ =	2,278 tons

The approximately total of soil to be removed is 46,810 tons. It should be noted that these are rough estimates only and will be subject to field verification.

In addition to soil excavation, Owens-Brockway is completing installation of the biobarrier as described in CKGs *Revised Corrective Action Plan, Targeted Excavations and Groundwater Treatment Trench, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated January 17, 2014*. The biobarrier will begin operating as soon as Pacific Glass & Electric completes its electrical drop design and provides power to the system. This is projected to occur by April 2016.

Owens-Brockway is presently completing site shutdown activities such as removing glass forming equipment, cleaning buildings, and dismantling the furnaces. Soil excavation work

cannot commence until after the furnaces have been removed. Because of the large volume of material to be removed and the fact that much of it occurs under existing buildings it is probable that Owens-Brockway may complete the work in phases, commensurate with demolition plans. Owens-Brockway will provide a site remediation schedule to Alameda County as soon as it is available.

6.0 CONCLUSIONS AND RECOMMENDATIONS

On the basis of this subsurface investigation the following conclusions and recommendations can be made:

6.1 CONCLUSIONS

- Five new areas of soil impacted with petroleum hydrocarbons exceeding 100 mg/kg in the upper ten feet were identified at the site. These areas total approximately X tons of material.
- Soil and groundwater samples collected below 10 feet are also impacted with petroleum hydrocarbons. Soil and groundwater impacts are collocated.
- Deeper soil borings installed as part of the biobarrier completion indicate that in the most highly impacted area (vicinity of Excavation E, Plate 2) subsurface petroleum hydrocarbon impacts extend as deep as 45 feet below grade.
- PCBs, dioxins, and furans were detected in soil samples collected in the vicinity of a former PCBs release in the basement of the glass melting furnace building. Owens-Brockway will work with the EPA to address concerns associated with PCBs, Dioxins and furans.
- Analyses of VOCs and SVOCs indicate that relatively low concentration of naturally occurring VOC and SVOC constituents occur sporadically in the highly impacted samples that were analyzed. There is no indication that manmade additives such as benzene, methyl-tert-butyl ether or other lead scavengers are present in the subsurface or were present in the original petroleum hydrocarbon products at the time of their release. This finding is consistent with VOC and SVOC analyses conducted in soil and groundwater samples from the site in previous investigations, and is consistent with the notion that the petroleum hydrocarbons are associated with the historic asphalt refinery.

- Analyses for LUFT metals indicate that the metals detected in the subsurface occur at concentrations that are natural for the area or if not natural, they do not occur at concentrations that exceed residential screening levels.

6.2 RECOMMENDATIONS

CKG recommends that Owens-Brockway submit this report to the Alameda County Health Agency. The findings of this investigation will be used to implement and expand the soil cleanup plan as outlined in the *Work Plan for Additional Targeted Excavation and Subsurface Investigation, Former Fuel Storage and Historical Asphalt Refinery Operational Areas, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California, dated December 2, 2015.*

7.0 REFERENCES

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LIMITATIONS

CKG Environmental, Inc. prepared this report in accordance with generally accepted standards of care, which exist in Northern California at this time. It should be recognized that definition and evaluation of geologic and environmental conditions is a difficult and an inexact science.

Conclusions and recommendations presented in this report are based on the results of the scope of work presented in our work plan dated December 2, 2015. This scope of work includes installing 75 soil borings and collecting 189 soil and 20 groundwater samples, and quantitative analysis conducted by McCampbell Analytical. Only work described herein was performed. As such CKG cannot render opinions on issues not resulting directly from the work performed.

Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. More extensive studies, including additional subsurface investigations, may be performed to reduce uncertainties. If the client wishes to reduce the uncertainties of this investigation, CKG should be notified for additional consultation. No warranty, expressed or implied, is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify CKG of such intended use. Based on the intended use of the report, CKG may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release CKG from any liability resulting from the use of this report by any unauthorized party.

TABLES

**TABLE 1 SAMPLE LOG
SUBSURFACE INVESTIGATION REPORT FORMER FUEL STORAGE
AND HISTORICAL ASPHALT REFINERY OPERATIONAL AREAS**

Area of Concern	Soil Borings	Total Depth	Analyses
Former Refinery (total 60 borings)	<p>Soil Samples B-48 through B-75 B-56A, 56B 57A, 57B B-58A B-60A, B, C B-61B, C, D, E, B-62B, C, D, E, F, B-65A, B, C, D, E, F, G, H, I, J, K B-70A, B, C, D B-72A</p> <p>Groundwater Samples B51 B-57A, B-61, B-62F, B-65, B-65F, B-70</p>	<p>20 feet*</p> <p>20 feet</p> <p>23 feet</p>	<p>All soil and groundwater samples analyzed for TPHg, TPHd, TPHmo by EPA Method 8015</p> <p>Additional Soil Analyses B-48-3', B-50-4', B-50-10', B-53-20', B-54-20', B-57-10', B-73-10', B-62-20', B-65-4', B-65-23', B-67-11', B-69-10', B-69-20', B-71-20', B-60A-15', B-51-15', B-57A-3', B-59-10', B-60B-19, B-61C-15, B-61D-20', B-62D-20', B-62E-20', B-65C-20'</p> <p>LUFT Metals by 6020 SVOCs by 8270C VOCs by 8260B PCBs by 8082</p> <p>B-72A-5', 10', 15' PCBs by 8082 Dioxins/Furans by E1613</p>
Diesel Release (total 4 borings)	<p>Soil Samples B-85 through B-88</p> <p>Groundwater Samples B85</p>	<p>20 feet</p> <p>20 feet</p>	<p>All soil and groundwater samples analyzed for TPHg, TPHd, TPHmo by EPA Method 8015</p> <p>Additional Soil Analyses B-88-15'</p> <p>LUFT Metals by 6020 SVOCs by 8270C VOCs by 8260B PCBs by 8082</p>
PCB/Dioxin/ Furan Release (total 8 borings)	<p>Soil Samples B-79 through B-84 B-82A, B</p> <p>Groundwater Samples B-80, B-83</p>	<p>5 feet</p> <p>1-2 feet</p>	<p>All soil and groundwater samples analyzed for TPHd by EPA Method 8015</p> <p>Additional Soil Analyses All soil samples analyzed for PCBs by EPA Method 8082 and-Dioxins and Furans by EPA Method 1613</p>

TABLE 2 SAMPLE LOG continued
SUBSURFACE INVESTIGATION REPORT FORMER FUEL STORAGE
AND HISTORICAL ASPHALT REFINERY OPERATIONAL AREAS

Area of Concern	Soil Borings	Total Depth	Analyses
Floor Trenches (total 3 borings)	Soil Samples B76 through B78	5 feet	All soil and groundwater samples analyzed for TPHg, TPHd, TPHmo by EPA Method 8015
	Groundwater Samples B77	1-2 feet	
Biobarrier and Well Installation Borings (total 6 borings)	Groundwater Samples B-42-21', B-42-41', B-43-20', B-44-20', B-44-35', B-45-18', B-46-18', B-47-18', B-47-33'	Variable as labelled	All groundwater samples analyzed for TPHg, TPHd, TPHmo by EPA Method 8015

TPHg/d/mo = Total Petroleum Hydrocarbons quantified as gasoline, diesel, or motor oil.

LUFT (leaking underground fuel tank) metals include Cadmium, Chromium, Lead, Nickel, Zinc.

SVOC = Semivolatile Organic Constituents

VOC = Volatile Organic Constituents

PCBs = Polychlorinated Biphenyls

*Except where water samples were collected

Table 2A. Summary of Petroleum Hydrocarbons in Soil

Sample ID	Depth Interval, fbg	Date	TPHg ^(a)	TPHd ^(b)	TPHmo ^(b)
B-48	3	12/28/2015	26	240	880
B-48	20	12/28/2015	5.6	70	73
B-49	10	12/28/2015	320	460	600
B-52	15	12/28/2015	130	100	92
B-50	4	12/29/2015	940	790	1000
B-50	10	12/29/2015	1600	1300	1100
B-53	15	12/29/2015	120	21	9.3
B-53	20	12/29/2015	32	200	2500
B-54	10	12/29/2015	100	68	88
B-54	20	12/29/2015	260	440	6500
B-55	10	12/29/2015	ND	4.6	15
B-55	15	12/29/2015	270	120	67
B-56	15	12/29/2015	ND	ND	ND
B-56	20	12/29/2015	140	170	270
B-57	10	12/29/2015	870	1800	2400
B-57	20	12/29/2015	510	450	470
B-73	10	12/30/2015	150	3600	6900
B-74	10	12/30/2015	ND	2.3	ND
B-74	15	12/30/2015	ND	ND	ND
B-75	10	12/30/2015	ND	ND	ND
B-85	16	12/30/2015	ND	ND	ND
B-86	15	12/30/2015	ND	ND	ND
B-87	10	12/30/2015	ND	ND	ND
B-87	20	12/30/2015	ND	ND	ND
B-88	11	12/30/2015	5.7	190	330
B-88	15	12/30/2015	45	1200	2800
B-88	20	12/30/2015	ND	10	13
B-72	5	01/04/2016	ND	68	510
B-72	15	01/04/2016	1.7	1.1	ND
B-76	3	01/04/2016	ND	21	33
B-77	5	01/04/2016	1.1	590	840
B-78	3	01/04/2016	6.9	25	42
B-79	1	01/04/2016	--	3000	--
B-80	1	01/04/2016	--	560	--
B-80	5	01/04/2016	--	13	--
B-81	2	01/04/2016	--	4700	--
B-82A	2	01/04/2016	--	1700	--
B-82B	2	01/04/2016	--	2000	--
B-83	1	01/04/2016	--	400	--
B-83	5	01/04/2016	--	86	--
B-84	2	01/04/2016	--	4700	--
B-61	10	01/05/2016	ND	ND	ND
B-61	15	01/05/2016	61	2.8	ND

Table 2A. Summary of Petroleum Hydrocarbons in Soil

Sample ID	Depth Interval, fbg	Date	TPHg ^(a)	TPHd ^(b)	TPHmo ^(b)
B-62	10	01/05/2016	2.5	230	760
B-62	20	01/05/2016	470	1400	2000
B-65	4	01/05/2016	330	1300	20
B-65	11	01/05/2016	2	8	1
B-65	23	01/05/2016	7100	7800	1
B-69	10	01/05/2016	36	4000	100
B-69	20	01/05/2016	2100	2700	10
B-63	6	01/06/2016	2.5	4.6	5.7
B-63	15	01/06/2016	ND	38	43
B-64	8	01/06/2016	15	43	230
B-64	12	01/06/2016	12	58	210
B-66	10	01/06/2016	28	66	100
B-66	15	01/06/2016	15	79	150
B-67	7	01/06/2016	ND	41	200
B-67	11	01/06/2016	1300	2200	1700
B-68	6	01/06/2016	ND	25	130
B-68	11	01/06/2016	ND	2.2	11
B-65A	10	01/07/2016	ND	ND	ND
B-65A	15	01/07/2016	ND	ND	ND
B-70	6	01/07/2016	ND	53	120
B-70	10	01/07/2016	ND	26	77
B-70	15	01/07/2016	130	210	110
B-70A	10	01/07/2016	ND	ND	ND
B-70A	15	01/07/2016	ND	ND	ND
B-71	5	01/07/2016	6.4	160	420
B-71	10	01/07/2016	4.5	9.9	25
B-71	20	01/07/2016	880	480	400
B-58	5	01/08/2016	ND	ND	ND
B-58	10	01/08/2016	ND	ND	ND
B-58	20	01/08/2016	37	22	18
B-60A	5	01/08/2016	5.4	ND	ND
B-60A	10	01/08/2016	ND	ND	ND
B-60A	15	01/08/2016	3500	1100	570
B-65A	20	01/08/2016	ND	ND	ND
B-65B	5	01/08/2016	51	700	810
B-65B	10	01/08/2016	ND	ND	ND
B-65B	15	01/08/2016	ND	ND	ND
B-65B	20	01/08/2016	ND	ND	ND
B-70B	5	01/08/2016	ND	ND	ND
B-70B	10	01/08/2016	31	180	350
B-70B	15	01/08/2016	6	28	53
B-70B	20	01/08/2016	ND	3.1	ND
B-51	5	01/11/2016	3.5	22	87

Table 2A. Summary of Petroleum Hydrocarbons in Soil

Sample ID	Depth Interval, fbg	Date	TPHg ^(a)	TPHd ^(b)	TPHmo ^(b)
B-51	15	01/11/2016	560	230	130
B-59	5	01/11/2016	ND	ND	ND
B-59	10	01/11/2016	ND	82	900
B-59	20	01/11/2016	ND	3	6.8
B-60	5	01/11/2016	ND	3.2	6.2
B-60	10	01/11/2016	ND	20	31
B-60	15	01/11/2016	57	570	340
B-61B	5	01/11/2016	ND	ND	ND
B-61B	15	01/11/2016	ND	ND	ND
B-62B	10	01/11/2016	ND	ND	ND
B-62B	20	01/11/2016	290	480	240
B-62C	5	01/11/2016	3.9	ND	ND
B-62C	10	01/11/2016	ND	ND	ND
B-62C	15	01/11/2016	ND	ND	ND
B-62C	20	01/11/2016	ND	ND	ND
B-65C	15	01/11/2016	ND	ND	ND
B-65C	20	01/11/2016	2600	910	54
B-65D	5	01/11/2016	ND	ND	7.7
B-65D	10	01/11/2016	ND	ND	ND
B-65D	15	01/11/2016	ND	ND	ND
B-65D	20	01/11/2016	ND	ND	ND
B-56A	5	01/12/2016	ND	ND	ND
B-56A	10	01/12/2016	ND	ND	ND
B-56B	20	01/12/2016	ND	ND	ND
B-57A	3	01/12/2016	1500	1400	960
B-57B	5	01/12/2016	ND	ND	ND
B-60B	15	01/12/2016	ND	1.2	ND
B-60B	19	01/12/2016	590	600	380
B-72A	10	01/12/2016	1.6	14	17
B-61C	4	01/13/2016	ND	2.9	ND
B-61C	10	01/13/2016	ND	2.4	8.5
B-61C	15	01/13/2016	800	490	330
B-61C	10	01/13/2016	ND	ND	ND
B-61C	15	01/13/2016	630	320	190
B-61C	20	01/13/2016	650	450	310
B-61C	5	01/13/2016	ND	ND	ND
B-61C	11	01/13/2016	3.8	1.2	7.7
B-61C	15	01/13/2016	4.9	36	110
B-61C	20	01/13/2016	ND	ND	ND
B-61C	5	01/13/2016	ND	1.1	5.7
B-61C	10	01/13/2016	ND	ND	ND
B-61C	15	01/13/2016	ND	ND	ND
B-61C	20	01/13/2016	ND	ND	ND

Table 2A. Summary of Petroleum Hydrocarbons in Soil

Sample ID	Depth Interval, fbg	Date	TPHg ^(a)	TPHd ^(b)	TPHmo ^(b)
B-58A	3	01/14/2016	370	360	260
B-58A	10	01/14/2016	ND	ND	ND
B-58A	15	01/14/2016	ND	ND	ND
B-58A	20	01/14/2016	ND	ND	ND
B-60C	5	01/14/2016	ND	ND	ND
B-60C	10	01/14/2016	ND	ND	ND
B-60C	15	01/14/2016	ND	ND	ND
B-61E	5	01/14/2016	ND	ND	ND
B-61E	10	01/14/2016	ND	ND	ND
B-61E	15	01/14/2016	ND	ND	ND
B-61E	20	01/14/2016	ND	ND	ND
B-61E	5	01/14/2016	ND	ND	ND
B-61E	10	01/14/2016	ND	ND	ND
B-61E	15	01/14/2016	ND	ND	ND
B-61E	20	01/14/2016	2100	1200	890
B-61E	5	01/14/2016	ND	ND	ND
B-61E	10	01/14/2016	ND	ND	ND
B-61E	15	01/14/2016	ND	ND	ND
B-61E	20	01/14/2016	1000	410	210
B-61E	5	01/14/2016	ND	ND	ND
B-61E	10	01/14/2016	ND	ND	ND
B-61E	15	01/14/2016	ND	ND	ND
B-61E	20	01/14/2016	ND	21	39
B-65F	5	01/15/2016	ND	ND	ND
B-65F	10	01/15/2016	ND	ND	ND
B-65F	15	01/15/2016	ND	ND	ND
B-65F	20	01/15/2016	ND	ND	ND
B-65H	10	01/15/2016	ND	ND	ND
B-65H	15	01/15/2016	ND	ND	ND
B-65I	15	01/15/2016	ND	ND	ND
B-65I	20	01/15/2016	67	130	80
B-65J	5	01/15/2016	ND	ND	ND
B-65J	10	01/15/2016	ND	ND	ND
B-65J	15	01/15/2016	ND	ND	ND
B-65J	20	01/15/2016	ND	ND	ND
B-65K	5	01/15/2016	ND	ND	ND
B-65K	10	01/15/2016	ND	ND	ND
B-65K	15	01/15/2016	ND	ND	ND
B-65K	20	01/15/2016	ND	ND	ND
B-65L	5	01/15/2016	ND	ND	ND
B-65L	10	01/15/2016	ND	ND	ND
B-65L	15	01/15/2016	ND	ND	ND
B-65L	20	01/15/2016	ND	ND	ND

Table 2A. Summary of Petroleum Hydrocarbons in Soil

Sample ID	Depth Interval, fbg	Date	TPHg ^(a)	TPHd ^(b)	TPHmo ^(b)
Environmental Screening Level ^(o) :			100	100	100
Regional Screening Level ^(p) :			82	110	2500

All results reported in mg/kg unless otherwise noted

^(a) Analyzed by method 8021b/8015bm

^(b) Analyzed by EPA Method 8015b

^(c) Analyzed by EPA Method 9071B

^(d) Analyzed by EPA Method 8260B

^(e) Analyzed EPA Method 8082

^(f) The hydrocarbons present are a complex mixture of diesel range and heavy oil range organics

^(g) Results in the diesel organics range are primarily due to overlap from a heavy oil range product

^(h) The sample chromatographic pattern does not resemble the diesel standard used for calibration

⁽ⁱ⁾ The motor oil range organics present are due to hydrocarbons eluting primarily in the diesel range

^(j) The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.

^(k) Result reported in µg/kg

^(l) Styrene detected (ESL = 15 mg/kg)

^(m) N-Butylbenzene detected

⁽ⁿ⁾ The reporting limits for this analysis have been raised to account for matrix interference

^(o) San Francisco Bay Regional Water Quality Control Board Table B-1: Shallow Soil Screening Levels (in mg/kg) for residential Land Use (groundwater is not a current or potential drinking water source)

^(p) United States Environmental Protection Agency Region 9 Regional Screening Levels (in mg/kg) for residential Land Use

BOLD = Greater than Environmental Screening Level

fbg = feet below grade

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

ND = Not detected at or above the respective reporting limit, see lab report

-- = Not analyzed

mg/kg = milligrams per kilogram (parts per million)

Table 2B. Summary of Petroleum Hydrocarbons in Groundwater

Sample ID	Date	TPHg ^(a)	TPHd ^(a)	TPHmo ^(a)
B-42-GW-21'	8/24/2015	2,200	840,000	550,000
B-42-GW-41'	8/24/2015	16,000	990,000	510,000
B-43-GW-20'	8/24/2015	140	560	320
B-44-GW-20'	8/24/2015	760	2,300	660
B-44-GW-35'	8/26/2015	ND	360	360
B-45-GW-18'	8/25/2015	17,000	890,000	660,000
B-46-GW-18'	8/25/2015	160	1,300	1,000
B-46-GW-32'	8/25/2015	ND	220	290
B-47-GW-18'	8/26/2015	ND	350	320
B-47-GW-33'	8/26/2015	ND	1,100	3,400
B-85-GW	12/30/2015	52	130	ND
B-77-GW	01/04/2016	ND	8,100	16,000
B-80-GW	01/04/2016	--	720,000	--
B-83-GW	01/04/2016	--	81,000	--
B-61-GW	01/05/2016	2200	26,000	12,000
B-65-GW	01/05/2016	12,000	2,200,000	56,000
B-70-GW	01/07/2016	29000	4,200,000	2,600,000
B-51-GW	01/11/2016	1,800	460,000	950,000
B-57A-GW	01/12/2016	110	260	ND
B-62F	01/15/2016	79	56,000	75,000
B-65F	01/15/2016	ND	91	550
Screening Level ^(c) :		500	640	640

All results reported in µg/kg unless otherwise noted

^(a) Analyzed by method 8021b/8015bm

^(c) San Francisco Bay Regional Water Quality Control Board Tier 1 ESLs for Groundwater Table F-1b Groundwater is not a source of drinking water.

BOLD = Greater than Environmental Screening Level

fbg = feet below grade

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

ND = Not detected at or above the reporting limit, see lab report

-- = Not analyzed

µg/kg = micrograms per kilogram (parts per million)

Table 3. Summary Detected of Volatile Organics and Semivolatile Organics in Soil

Sample ID	Depth Interval, fbg	Date	VOCs ^(a)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyl toluene	Ethylbenzene	Isopropylbenzene	n-Butyl benzene	n-Propyl benzene	Naphthalene	sec-Butyl benzene
B-48	3	12/28/2015	ND	0.0053	ND	ND	ND	0.0094	ND	ND	0.013
B-50	4	12/29/2015	ND	ND	0.071	ND	ND	0.044	ND	ND	0.12
B-50	10	12/29/2015	ND	ND	0.23	ND	ND	0.21	ND	ND	0.29
B-53	20	12/29/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-54	20	12/29/2015	ND	ND	0.037	ND	ND	0.023	ND	ND	0.013
B-57	10	12/29/2015	ND	ND	0.16	ND	0.45	0.68	0.74	ND	0.62
B-73	10	12/30/2015	0.77	0.22	ND	ND	ND	0.11	ND	ND	ND
B-88	15	12/30/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-62	20	1/5/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-65	4	1/5/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-65	23	1/5/2016	ND	ND	0.72	ND	ND	1.5	ND	ND	1.8
B-69	10	1/5/2016	0.027	ND	0.028	ND	ND	ND	ND	ND	ND
B-69	20	1/5/2016	ND	ND	ND	ND	7.3	3.9	8.4	19	4.7
B-67	11	1/6/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-71	20	1/7/2016	ND	ND	0.43	0.21	0.95	0.6	1.3	ND	0.75
B-60A	15	1/8/2016	ND	ND	ND	ND	ND	0.45	ND	ND	0.39
B-51	15	1/11/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-59	10	1/11/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-65C	20	1/11/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-57A	3	1/12/2016	0.4	0.76	ND	ND	ND	ND	ND	ND	ND
B-60B	19	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-61C	15	1/13/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-61D	20	1/13/2016	ND	ND	ND	ND	ND	ND	ND	ND	0.23
B-62D	20	1/14/2016	ND	ND	ND	ND	0.36	0.77	0.42	ND	0.85
B-62E	20	1/14/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
Screening Level ^(c) :			--	--	--	4.7	--	--	--	3.1	--

^(a) Analyze by method SW8260

^(a) Analyze by method SW8270

^(c) San Francisco Bay Regional Water Quality Control Board Table A-2: Shallow Soil Screening Levels (in mg/kg) for residential uses. Land Use (groundwater is not a current or potential drinking water source)

All results reported in mg/kg.

fbg = feet below grade

VOC = Volatile Organic Compound

SVOC = Semivolatile Organic Compound

ND = Not detected at or below respective reporting limits, see lab report

-- = Not Analyzed

mg/kg = Milligrams per kilogram (parts per million)

Table 4. Summary of Metals in Soil

Sample ID	Depth		Cadmium	Chromium	Lead	Nickel	Zinc
	Interval, fbg	Date					
B-48	3	12/28/2015	ND	63	9	89	42
B-50	4	12/29/2015	ND	68	8.1	85	53
B-50	10	12/29/2015	ND	62	5.2	80	47
B-53	20	12/29/2015	ND	52	3.6	66	30
B-54	20	12/29/2015	ND	51	3.1	61	26
B-57	10	12/29/2015	ND	58	5.2	52	49
B-73	10	12/30/2015	ND	57	6.5	62	52
B-88	15	12/30/2015	ND	76	5.9	150	68
B-62	20	1/5/2016	ND	56	6.6	48	36
B-65	4	1/5/2016	ND	100	6.7	150	71
B-65	23	1/5/2016	ND	46	2.2	40	20
B-69	10	1/5/2016	0.37	60	8.1	71	68
B-69	20	1/5/2016	ND	40	1.9	43	20
B-67	11	1/6/2016	ND	63	6.3	61	38
B-71	20	1/7/2016	ND	60	3.2	76	32
B-60A	15	1/8/2016	ND	63	ND	95	40
B-51	15	1/11/2016	ND	89	3.1	86	27
B-59	10	1/11/2016	0.75	95	13	110	100
B-65C	20	1/11/2016	ND	84	8.4	79	59
B-57A	3	1/12/2016	ND	64	8.8	60	56
B-60B	19	1/12/2016	ND	110	5.4	110	39
B-61C	15	1/13/2016	0.26	96	5.7	150	57
B-61D	20	1/13/2016	ND	58	6.1	95	31
B-62D	20	1/14/2016	ND	49	3.9	74	35
B-62E	20	1/14/2016	ND	59	17	62	51
Screening Level ^(o) :			12	100	80	150	600

All results reported in mg/kg unless otherwise noted
mg/kg = milligrams per kilogram (parts per million)

Analyzed by method SW6020

^(o) San Francisco Bay Regional Water Quality Control Board Table B-1:
Shallow Soil Screening Levels (in mg/kg) for Residential (groundwater is not a current or potential drinking water source)

BOLD = Greater than Environmental Screening Level
fbg = feet below grade

ND = Not detected at or above the respective reporting limit, see lab report

-- = Not analyzed

Table 5A. Summary of Detected PCBs, Dioxins and Furans in Soil

Sample ID	Depth Interval, fbg	Date	PCBs ^(a)			Dioxins and Furans ^(b)																		
			Total PCBs	Aroclor1254	Total-Heptadioxins	Total-Heptafurans	Total-Hexadioxins	Total-Hexafurans	Total-Pentafurans	Total-Tetrafurans	HpCDD	HpCDF	HpCDF	HxCDF	HxCDD	HxCDF	PeCDF	HxCDF	PeCDF	TCDD	TCDF	Cl-TCDD	OCDD	OCDF
B-79	0.5	01/04/2016	ND	ND	159	99.1	13.9	34.4	ND	ND	94.1	20.7	2.56	2.96	3.74	7.18	ND	ND	ND	ND	ND	71	951	75.8
B-80	1	01/04/2016	ND	ND	52.5	35.2	4.44	8.78	ND	ND	29.1	9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	95	391	22.2
B-80	5	01/04/2016	3	3	3.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	91	22.7	ND
B-48	3	12/28/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-50	4	12/29/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-50	10	12/29/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-53	20	12/29/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-54	20	12/29/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-57	10	12/29/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-73	10	12/30/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-88	15	12/30/2015	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-81	1.5	01/04/2016	5.5	5.5	93.7	65.2	ND	34.9	3.54	5.02	51.4	18.2	ND	3.46	ND	4.76	ND	ND	ND	ND	0.9	94	569	42.1
B-82A	1.5	01/04/2016	180	180	146	159	14	399	481	351	66.9	48.9	35.4	109	ND	46.9	30.7	42.4	75.3	ND	57.4	--	1230	58
B-82B	2	01/04/2016	ND	ND	3.62	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109	28.8	ND
B-83	1	01/04/2016	310	310	11.4	144	3.08	363	561	794	5.56	47.5	36.6	98.5	ND	34.1	23.4	32.6	59.8	ND	76.5	--	60.5	46.7
B-83	5	01/04/2016	56	56	ND	33.7	ND	87.3	84.5	77.9	ND	10.8	8.92	25.4	ND	8.8	3.42	10.2	14.5	ND	8.6	--	ND	10.3
B-84	1.5	01/04/2016	2900	2900	346	1930	17.2	4960	4320	2850	158	625	490	1390	8.6	609	198	544	739	3.86	466	--	2500	740
B-62	20	1/5/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-65	4	1/5/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-65	23	1/5/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-69	10	1/5/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-69	20	1/5/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-67	11	1/6/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-71	20	1/7/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-60A	15	1/8/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-51	15	1/11/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-59	10	1/11/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-62C	20	1/11/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-57A	3	1/12/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-60B	19	1/12/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-72A	5	1/12/2016	ND	ND	ND	ND	ND	ND	ND	1.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-72A	10	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-72A	15	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-61C	15	1/13/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-61D	20	1/13/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-62D	20	1/14/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-62E	20	1/14/2016	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Environmental Screening Level ^(c) :			0.23	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Regional Screening Level ^(d) :			0.24	0.24	--	--	--	--	--	1.8×10^{10} pg/g	1pg/g	--	--	--	--	--	--	--	--	--	--	--	--	--

^(a) Analyzed by method 8082; reported in mg/kg
^(b) Analyzed by EPA Method E1613 reported in pg/g
^(c) San Francisco Bay Regional Water Quality Control Board Table A-2: Shallow Soil Screening Levels (in mg/kg) for Residential Land Use (groundwater is not a current or potential drinking water source)
^(d) United States Environmental Protection Agency, Region 9 Regional Screening Levels for residential Land Use

fbg = feet below grade
PCBs = Polychlorinated Biphenyls
ND = Not detected at or above the respective reporting limit, see lab report
-- = Not analyzed
mg/kg = milligrams per kilogram (parts per million)

Table 5B. Summary of Detected PCBs, Dioxins and Furans in Groundwater

Constituent		Sample ID		Environmental Screening Level ⁽⁰⁾	Regional Screening Level ^(*)
Sample Date 1/4/2016		B-80	B-83		
PCBs mg/kg	Total PCBs	3200	130000	0.23	0.24
	Aroclor1254	3200	130000	0.23	0.24
Dioxins and Furans pg/g	Total-Heptadioxins	2030	910		
	Total-Heptafurans	1440	27800		
	Total-Hexadioxins	ND	162		
	Total-Hexafurans	894	73700		
	Total-Pentafurans	1700	75900		
	Total-Tetrafurans	ND	33000		73,000,000
	1,2,3,4,6,7,8-HpCDD	1210	472		
	1,2,3,4,6,7,8-HpCDF	327	8300		
	1,2,3,4,7,8-HxCDF	161	19400		
	1,2,3,4,7,8,9-HpCDF	ND	7390		
	1,2,3,6,7,8-HxCDF	168	7340		
	1,2,3,7,8-PeCDF	ND	2670		
	2,3,4,6,7,8-HxCDF	70.9	7060		
	2,3,4,7,8-PeCDF	79.8	10900		
	2,3,7,8-TCDF	ND	5730		
	OCDD	14600	4180		
	OCDF	1210	9940		

^(a) Analyzed by method 8082; reported in mg/kg

^(b) Analyzed by EPA Method E1613

⁽⁰⁾ San Francisco Bay Regional Water Quality Control Board Tier 1 ESLs for Groundwater

^(*) United States Environmental Protection Agency Region 9 Regional Screening Levels for Groundwater

fbg = feet below grade

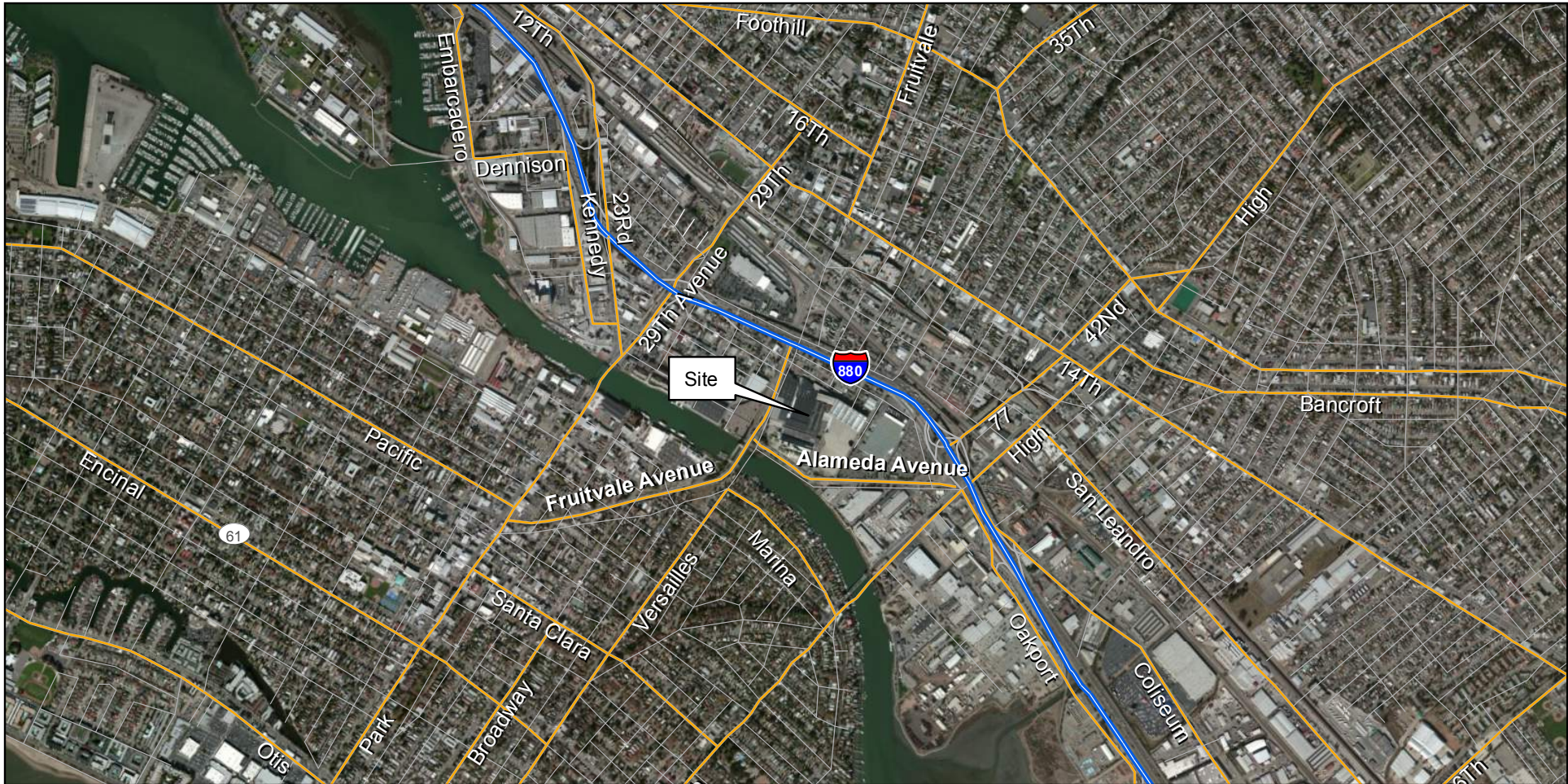
PCBs = Polychlorinated Biphenyls

ND = Not detected at or above the respective reporting limit, see lab report

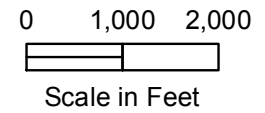
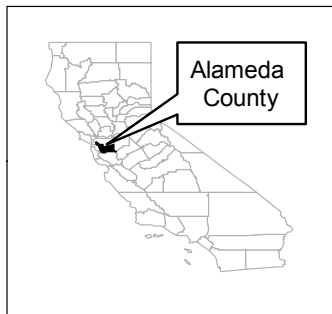
-- = Not analyzed

mg/kg = milligrams per kilogram (parts per million)

PLATES



Drawn by PAD. January 2014. Base layers are unmodified Alameda County Digital Data Sets.





Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.

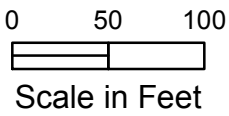
EXPLANATION

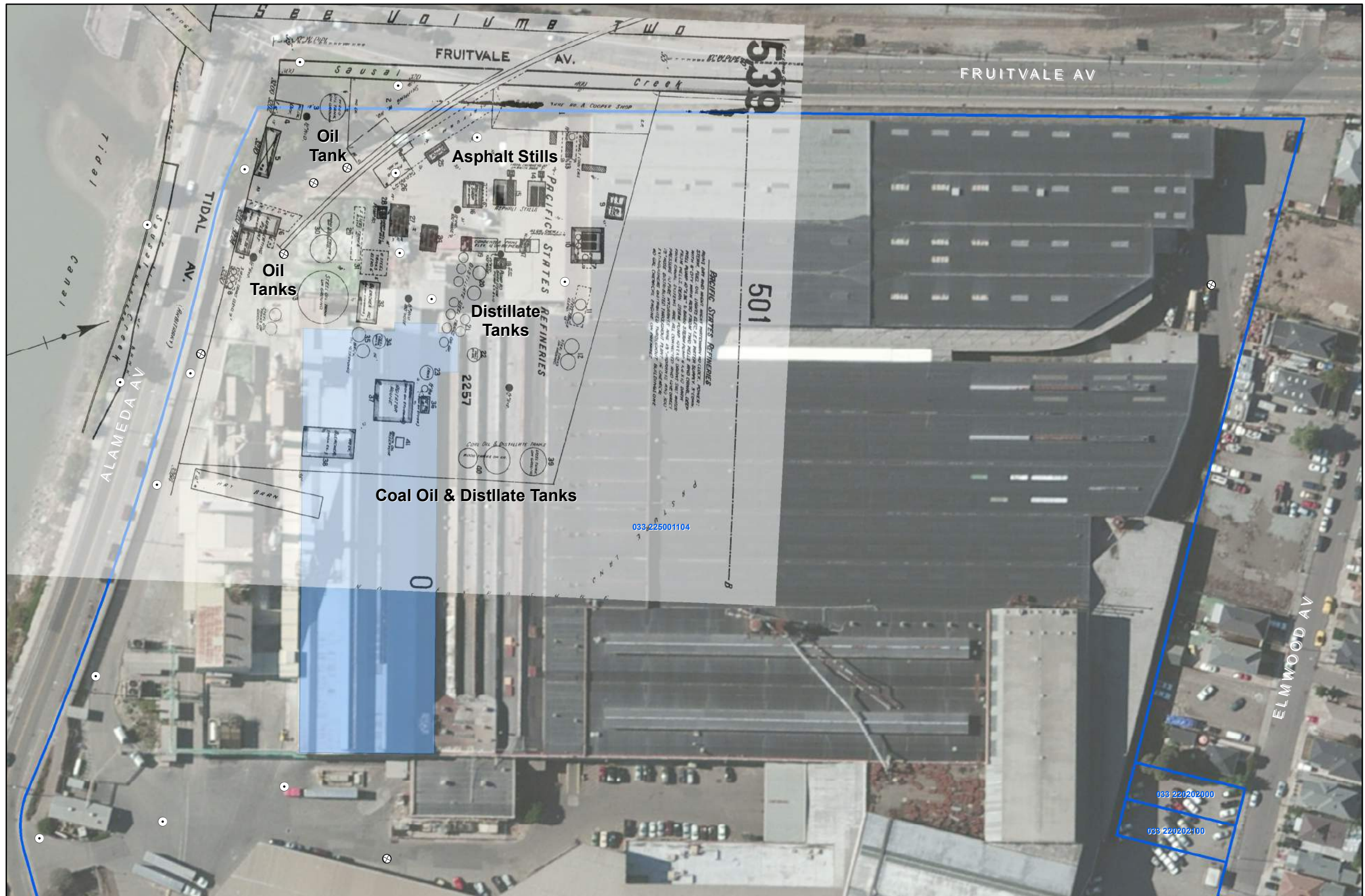
- Previous Geoprobe Location
- Monitoring Well
- ⊗ Destroyed Well

- Site Parcel
- 2011 Excavation
- 2014 Excavation

Former Fuel USTs

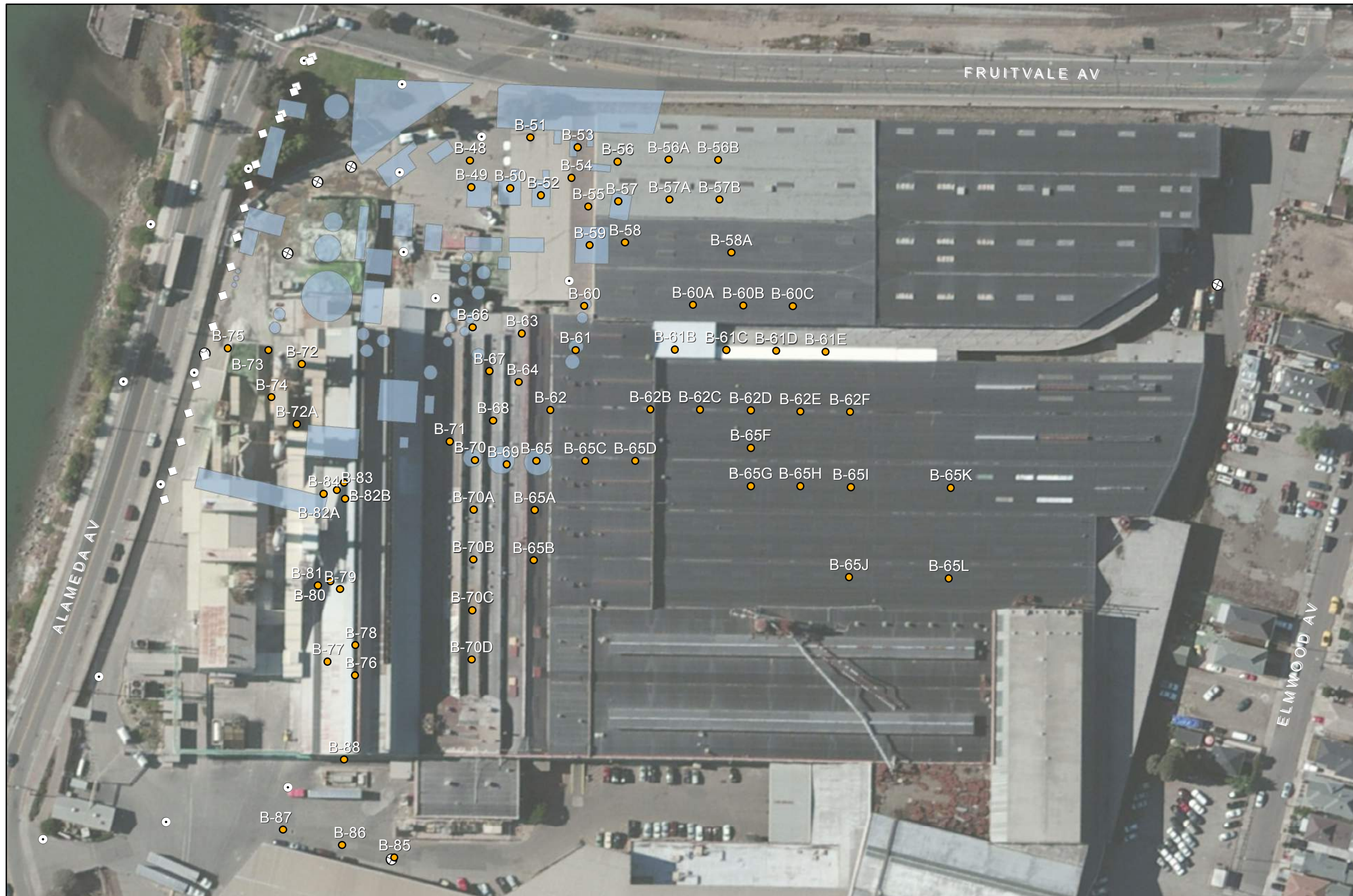
- Product**
- Diesel
 - Fuel Oil
 - Gasoline
 - Lube Oil
 - Waste Oil (Not Confirmed)



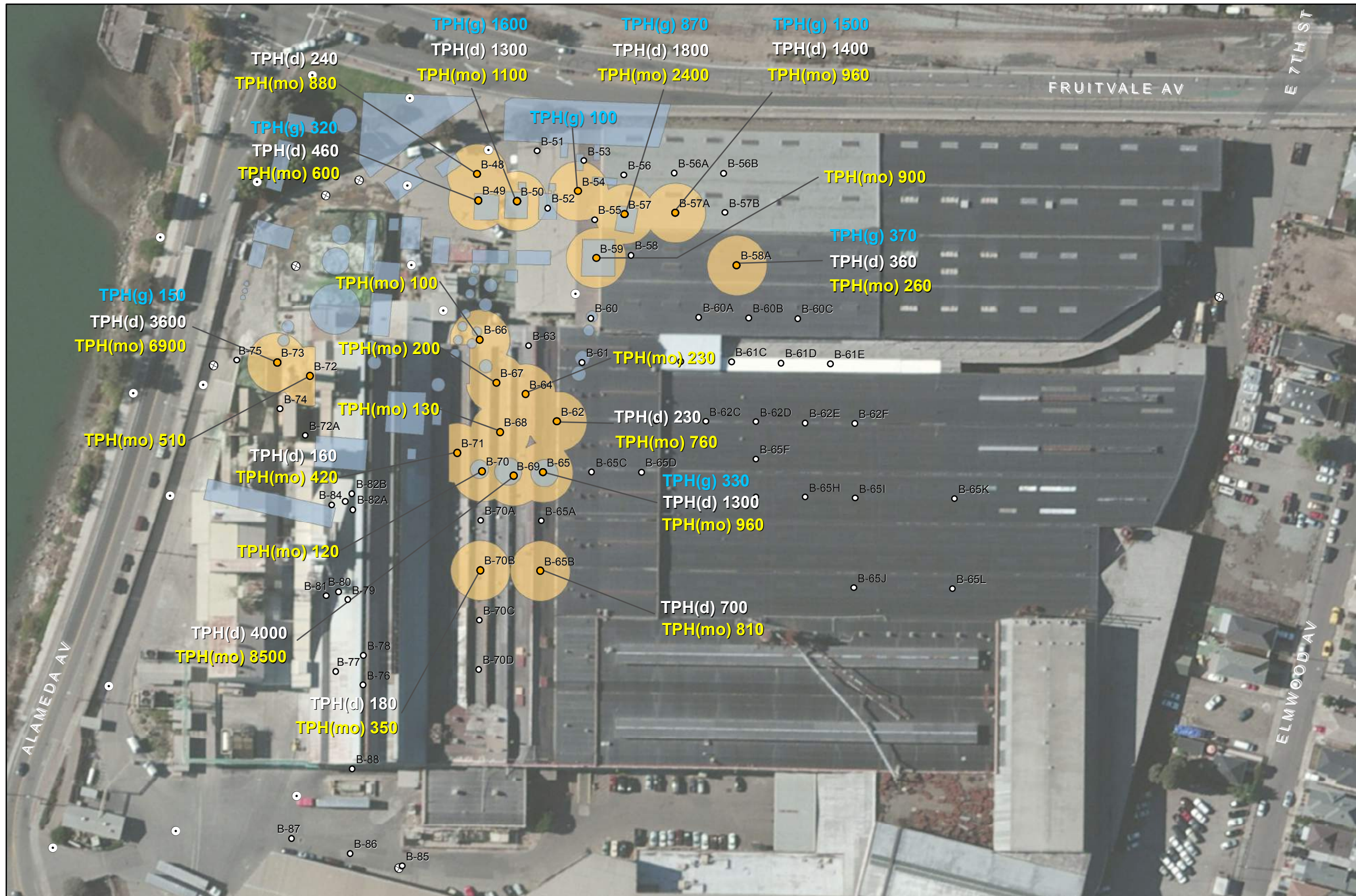


EXPLANATION

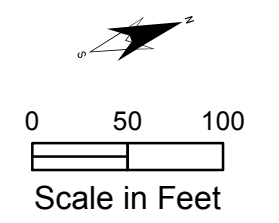
- Injection Well
- Soil Boring
- ⊗ Destroyed Well
- Monitoring Well
- Refinery Features



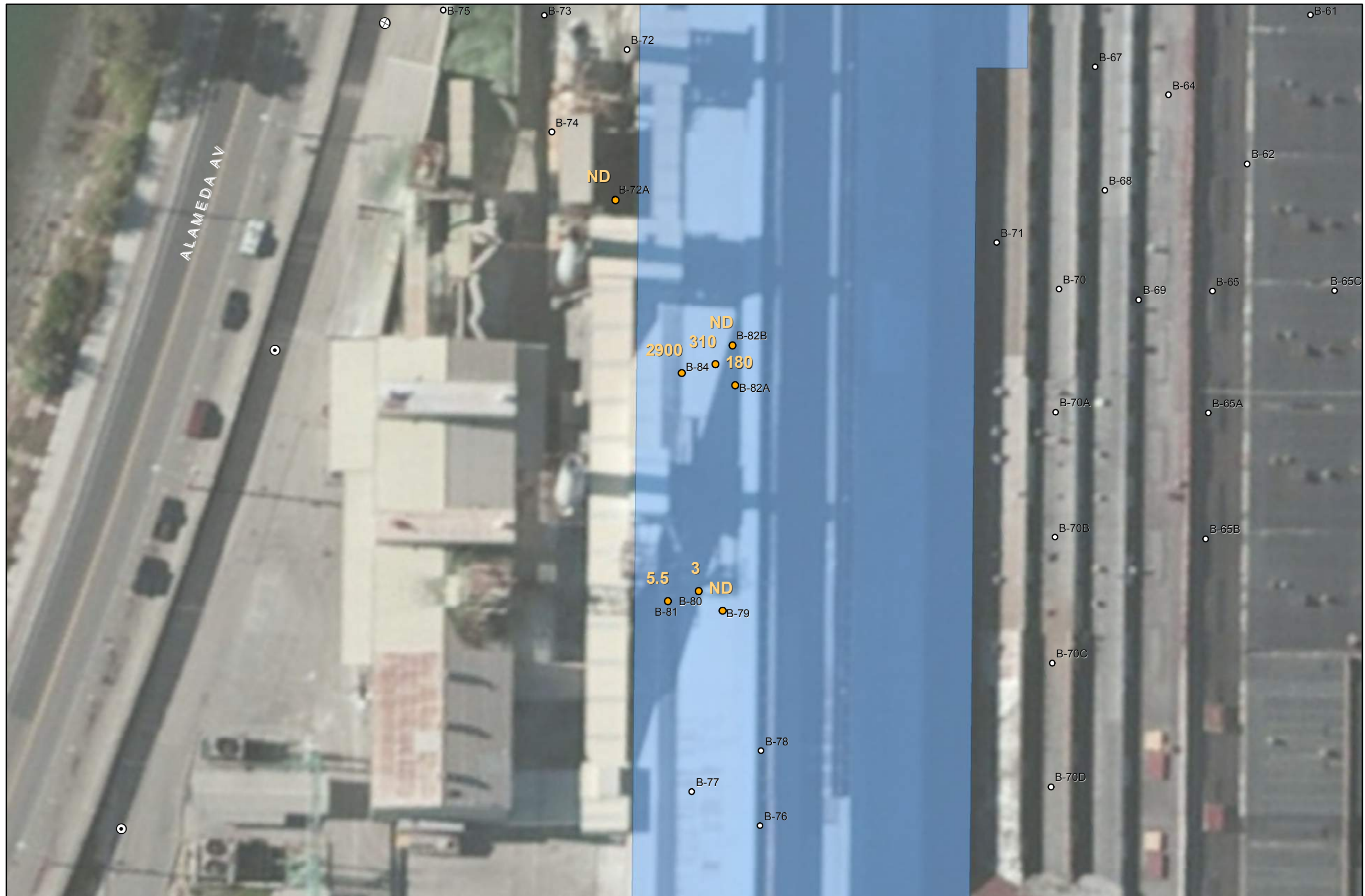
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



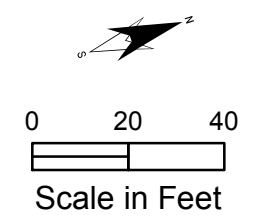
- ### EXPLANATION
- Sample TPH > 100 mg/Kg
 - Sample TPH < 100 mg/Kg
 - ⊗ Destroyed Well
 - Monitoring Well
 - Refinery Features
 - Soil Potentially Containing TPH



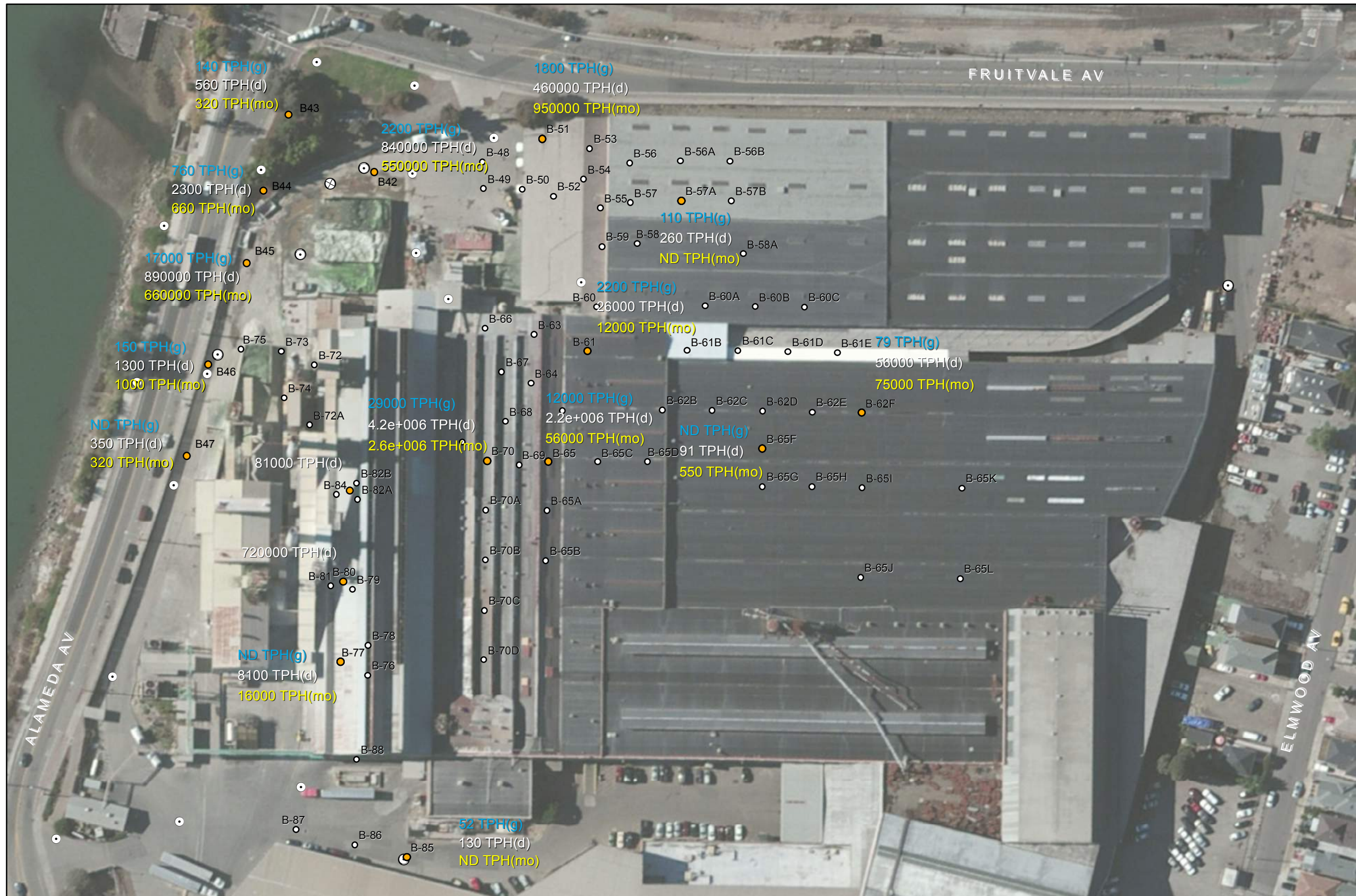
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



- EXPLANATION**
- Sample
 - Sample Not Analyzed
 - ⊙ Monitoring Well
 - ⊗ Destroyed Well
 - Glass Forming Bld. Basement

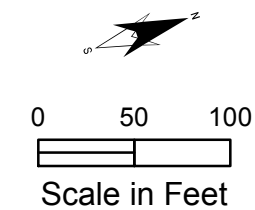


Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- Monitoring Well
- ⊗ Destroyed Well



Drawn by PAD. 2015. Base layers are unmodified ESRI Digital Data Sets.

EXPLANATION

- Sample TPH > 100
- Sample TPH < 100
- ⊙ Monitoring Well
- ⊗ Destroyed Well
- Planned Excavation
- Proposed Soil Excavation Area
- Basement



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.

APPENDIX A

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-48
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	28-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	28-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		6		CL	ASPHALT CLAY: 65% clay, 25% silt, black (10YR 2/1), damp, medium-stiff, low-plasticity. 10% sand, fine-grained, sub-angular. Slight hydrocarbon odor.	0
			56				
			147				
			30	B-48-3'			
			154		ML	SILT: 90% silt, greenish gray (GLE Y1 6/5GY), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
5	Direct Push	100%	512			@6.5' - Color grades to dark greenish gray (GLE Y1 4/5GY), no sand content, 20% clay content.	5
			385				
			226				
			152				
	Direct Push	100%	148				
10			207				10
			353				
			82				
	Direct Push	100%	80		SM	SILTY SAND: 65% sand, greenish gray (GLE Y1 5/10GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 35% silt, non-pastic. Strong hydrocarbon odor.	
			1,100				
15			960				15
			180		SP	POORLY GRADED SAND w/SILT: 90% sand, dark greenish gray (GLE Y1 4/5GY), wet, medium-stiff, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 10% silt, non-plastic. Strong hydrocarbon odor.	
	Direct Push	100%	174				
			76				
			78	B-48-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 16.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-49
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	28-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	28-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		2		CL	ASPHALT CLAY: 65% clay, 25% silt, black (10YR 2/1), damp, medium-stiff, low-plasticity. 10% sand, fine-grained, sub-angular. Strong hydrocarbon hydrocarbon odor.	0
			32				
	Direct Push	100%	165		ML	SILT: 80% silt, 15% clay, greenish gray (GLE Y1 5/10Y), damp, medium-stiff, non-plastic. 5% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
			329				
5	Direct Push	100%	178	B-49-10'	CL	CLAY: 90% clay, 10% silt, greenish gray (GLE Y1 5/10Y), moist, soft, medium-plasticity. Moderate hydrocarbon odor.	5
			681				
	Direct Push	100%	340		CLS	SANDY CLAY: 60% clay, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, low-plasticity. 40% sand, fine- to medium-grained, sub-angular, poorly graded. Moderate hydrocarbon odor.	
			560				
10	Direct Push	100%	248		SG	GRAVELLY SAND w/SILT: 60% sand, very dark greenish gray (GLE Y1 3/10Y), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded. 25% gravel, fine- to coarse-grained, with max gravel size of 1/2-inch. 15% silt, non-plastic. Strong hydrocarbon odor.	10
			407				
	Direct Push	100%	455			Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 15' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	15
			611				
	Direct Push	100%	920				
			705				
15	Direct Push	100%	455				15
			771				
	Direct Push	100%	904				
			383				
20	Direct Push	100%	215				20
			661				
25	Direct Push	100%					25
30	Direct Push	100%					30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-50
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		35			ASPHALT	0	
			76		CL	BRICK		
			54				CLAY: 55% clay, 35% silt, black (10YR 2/1), damp, medium-stiff, low-plasticity. 10% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
			404					
5	Direct Push	100%	970	B-50-4'	ML	SILT w/SAND: 65% silt, 20% clay, greenish gray (GLE Y1 5/10GY), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Strong hydrocarbon odor.	5	
			901					
			1,005					
			570					
10	Direct Push	100%	508					
			903					
			325	B-50-10'				10
			251					
15	Direct Push	100%	755		MLS	SANDY SILT: 70% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular, poorly graded. Moderate hydrocarbon odor.		
			890					
			755			SP	POORLY GRADED SAND w/GRAVEL: 70% sand, dark greenish gray (GLE Y1 4/10Y), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine- to coarse-grained, with max gravel size of 1/2-inch. 10% silt, non-plastic. Strong hydrocarbon odor.	15
			904					
20	Direct Push	100%	2,136					
			1,644					
			970			CL	CLAY: 75% clay, 20% silt, greenish gray (GLE Y1 5/10Y), moist, medium-stiff, low-plasticity. 5% sand, fine-grained. Moderate hydrocarbon odor.	20
			135					
20						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 14.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20	
25							25	
30							30	

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-51
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				SM	CONCRETE	0
5	Direct Push	100%		B-51-5'	ML	SILTY SAND: 70% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 30% silt, non-plastic. Fill material. No hydrocarbon odor. SILT w/SAND: 85% silt, very dark gray (10YR3/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained. Slight hydrocarbon odor. @4' - color changes to gray (10YR 6/1)	5
10	Direct Push	100%			ML	SILT: 90% silt, 10% clay, gray (GLE Y1 5/N), moist, medium-stiff, non-plastic. Moderate hydrocarbon odor.	10
15	Direct Push	100%		B-51-GW	MLS	SANDY SILT: 70% silt, dark gray (GLE Y1 4/N), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
15				B-51-15'	SM	SILTY SAND: 70% sand, dark gray (GLE Y1 4/N), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	15
20	Direct Push	100%			SG	GRAVELLY SAND w/SILT: 55% sand, very dark gray (GLE Y1 3/N), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded. 30% gravel, fine-grained with max size of 1/4-inch. 15% silt, non-plastic. Very strong hydrocarbon odor.	20
25						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 14.5' FID not operating properly during drilling activities Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-52
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	28-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	28-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		34		SM	ASPHALT CLAY: 65% clay, 25% silt, black (10YR 2/1), dry, medium-stiff, low-plasticity. 10% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	0
			45				0.5'
	Direct Push	100%	311		MLS	SANDY SILT : 80% silt, dark greenish gray (GLE Y1 4/5GY), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
			120				4'
5	Direct Push	100%	58		CL	CLAY : 70% clay, 20% silt, dark greenish gray (GLE Y1 4/5GY), moist, very stiff, medium-plasticity. 10% sand, fine-grained, sub-angular. Strong hydrocarbon odor.	5
			569				
	Direct Push	100%	320		SM	SILTY SAND : 60% sand, dark greenish gray (GLE Y1 4/10GY), moist, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 40% silt, non-plastic. Strong hydrocarbon odor.	
			699				10'
10	Direct Push	100%	170		SP	POORLY GRADED SAND : 95% sand, very dark gray (GLE Y1 3/N), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 5% silt. Very strong hydrocarbon odor.	10
			525				13'
	Direct Push	NR	119	B-52-15'			
			421				16'
15	Direct Push	50%	586				15
			558				
	Direct Push	50%	1,325				
			1,902				20'
20	<p>Geologist Terminated Boring at 20' - Target Depth Achieved</p> <p>- First water bearing zone encountered at 16'</p> <p>Soil boring was backfilled with neat cement grout.</p> <p>Surface completed with concrete patch to match surrounding grade.</p>						20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-53
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		55		SM	ASPHALT SANDY SILT: 50% silt, 25% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular, poorly graded. Slight hydrocarbon odor.	0
			43				
			37				
			33				
5	Direct Push	100%	28		SM	SILTY SAND: 75% sand, brownish yellow (10YR 6/8), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. Very slight hydrocarbon odor.	5
			13				
	Direct Push	100%	12		ML	SILT w/SAND: 70% silt, 20% clay, light olive brown (2.5Y 5/3), moist, medium-stiff, non-plastic. 10% sand, fine-grained. Very slight hydrocarbon odor.	
			9				
10	Direct Push	100%	9		CL	CLAY: 60% clay, 40% silt, dark grayish brown (10YR 4/2), moist, medium-stiff, low-plasticity. No hydrocarbon odor.	10
			7				
	Direct Push	NR	6		ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
			96				
15	Direct Push	50%	140	B-53-15'		SILT w/SAND: 85% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	15
			936				
			624				
			2,180				
			1,175		SM	SILTY SAND: 70% sand, greenish gray (GLE Y1 5/5GY), wet, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	
				B-53-20'			20'
20						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 18.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-54
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				SM	CONCRETE SANDY SILT: 50% silt, 25% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular, poorly graded. Very slight hydrocarbon odor.	0
5	Direct Push	NR	3				5
		33%	3				
			3				
			3				
			63		CL	CLAY w/SAND: 65% clay, 20% silt, very dark gray (10YR 3/1), moist, medium-stiff, low-plasticity. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
			77				
			257				
10	Direct Push	100%	343	B-54-10'			10
			412		ML	SILT: 90% silt, 10% clay, greenish gray (GLE Y1 6/10Y), moist, medium-stiff, non-plastic. Moderate hydrocarbon odor.	
			129				
			98				
			234				
15	Direct Push	NR	102				15
		50%	13				
			194				
			481		SM	SILTY SAND: 60% sand, greenish gray (GLE Y1 5/5GY), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 40% silt, non-plastic. Moderate hydrocarbon odor.	
			572				
				B-54-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 18' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-55
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				SM	CONCRETE SILTY SAND: 70% sand, brownish yellow (10YR 6/6), damp, medium-dense, fine- to medium-grained, sub-angular to angular, poorly graded. 30% silt, non-plastic. No hydrocarbon odor.	0
5	Direct Push	100%	3 2 1 1		CL	CLAY: 90% clay, 10% silt, very dark gray (10YR 3/1), moist, medium-stiff, medium-plasticity. No hydrocarbon odor.	5
10	Direct Push	100%	2 5 10 107 116 372 215	B-55-10'	ML	SILT w/SAND: 80% silt, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. Very slight hydrocarbon odor. @11.5' - color grades to greenish gray (GLE Y1 5/10Y), moderate hydrocarbon odor.	10
15	Direct Push	100%	89 452 819 1,257 366	B-55-15'	MLS SM	SANDY SILT: 75% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, subangular. Strong hydrocarbon odor. SILTY SAND: 60% sand, greenish gray (GLE Y1 5/5GY), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. Strong hydrocarbon odor.	15
20						Geologist Terminated Boring at 20' - Target Depth Achieved - First water bearing zone encountered at 19' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-56
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER					CONCRETE	0
			0		SM	SILTY SAND: 70% sand, brownish yellow (10YR 6/6), damp, medium-dense, fine- to medium-grained, sub-angular to angular, poorly graded. 30% silt, non-plastic. No hydrocarbon odor.	
			0				
			0		MLS	SANDY SILT: 60% silt, very dark grayish brown (10YR 3/2), damp, medium-dense, non-plastic. 40% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
5	Direct Push	100%	0				5
			0		ML	SILT: 90% silt, 10% clay, very dark gray (10YR 3/1), moist, medium-stiff, non-plastic. No hydrocarbon odor.	
			1				
			1				
10	Direct Push	100%	0		CL	CLAY: 80% clay, 20% silt, light gray (10YR 7/2), moist, soft, low-plasticity. No hydrocarbon odor.	10
			1				
			2				
			1				
			3				
15	Direct Push	100%	5	B-56-15'			15
			10				
			25		SM	SILTY SAND: 60% sand, greenish gray (GLE Y1 5/10Y), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. Moderate hydrocarbon odor.	
			122				
			108	B-56-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-56A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SM	CONCRETE	0
			0		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	
			0			SILT w/SAND: 65% silt, 20% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	
5	Direct Push	100%	0	B-56A-5'			5
			0		ML	SILT: 85% silt, 10% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. 5% sand, fine-grained. No hydrocarbon odor.	
10	Direct Push	100%	0	B-56A-10'			10
			0		ML	SILT w/SAND: 80% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
			0		SG	GRAVELLY SAND w/SILT: 60% sand, yellowish brown (10YR 5/6), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% gravel, fine-grained with max gravel size of 1/4-inch. 15% silt, non-plastic. No hydrocarbon odor.	
15	Direct Push	100%	0				15
			0		ML		
			0		SG		
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-56B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				SM	CONCRETE	0
			1		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	
			3				
			2			SILT w/SAND: 65% silt, 20% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor from 2' to 3', no hydrocarbon odor from 3' to 8.5'.	
5	Direct Push	100%	0				5
			0				
			0				
			1		ML	SILT: 80% silt, 20% clay, light brownish gray (10YR 6/2), moist, stiff, low-plasticity. No hydrocarbon odor.	
10	Direct Push	100%	0				10
			0				
			1				
			1				
	Direct Push	100%	0				
			3				
15			1				15
			1		ML	SILT w/SAND: 70% silt, 10% clay, pale brown (10YR 6/3), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
			0				
			3			GRAVELLY SAND w/SILT: 55% sand, dark yellowish brown (10YR 4/6), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 30% gravel, fine- to coarse-grained with max gravel size of 1/2-inch. 15% silt, non-plastic. No hydrocarbon odor.	
	Direct Push	100%	4	B-56B-20'	SG		
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-57
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	29-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	29-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER						0
			2		SM	CONCRETE 6'	
			3			SILTY SAND: 65% sand, brown (7.5YR 5/4), dry, medium-dense, fine- to coarse-grained, sub-angular to angular, poorly graded. 35% silt, non-plastic. No hydrocarbon odor.	
			4		MLS	3'	
5	Direct Push	100%	115			SILT w/SAND: 85% silt, dark gray (10YR 4/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	5
			328				
			340		CL	9'	
10	Direct Push	100%	620	B-57-10'		CLAY: 90% clay, 10% silt, very dark gray (10YR 3/1), moist, medium-stiff, medium-plasticity. Moderate hydrocarbon odor.	10
			432				
			117				
			227				
15	Direct Push	100%	345				15
			675				
			811		SM	17'	
		75%	1,376			SILTY SAND: 70% sand, dark greenish gray (GLEY1 4/5GY), moist, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	
			1,255				
20				B-57-20'		20'	20
						Geologist Terminated Boring at 20' - Target Depth Achieved	
						First water bearing zone not encountered	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-57A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		2		SM	CONCRETE	0
			205	B-57A-3'	ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	2.5'
5	Direct Push	100%	3		ML	SILT w/SAND: 65% silt, 20% clay, greenish gray (GLE Y1 6/5GY), damp, medium-stiff, low-plasticity. 15% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor at 3'. Hydrocarbon odor decreases with depth. @4.5' - Color changes to black (10YR 2/1).	5
			6				
	Direct Push	100%	4		ML	SILT: 75% silt, 20% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. 5% sand, fine-grained. No hydrocarbon odor. @14' - Increasing clay content.	10
10			2				
	Direct Push	100%	1		MLS	SANDY SILT: 70% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 30% sand, fine-to coarse-grained, sub-angular to sub-rounded. No hydrocarbon odor. @18' to 19' - Soil becomes wet, increased sand content.	15
			0				
15	Direct Push	100%	0		MLS	SANDY SILT: 70% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 30% sand, fine-to coarse-grained, sub-angular to sub-rounded. No hydrocarbon odor. @18' to 19' - Soil becomes wet, increased sand content.	15
			0				
	Direct Push	100%	0		MLS	SANDY SILT: 70% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 30% sand, fine-to coarse-grained, sub-angular to sub-rounded. No hydrocarbon odor. @18' to 19' - Soil becomes wet, increased sand content.	20
20			0				
			0	B-57A-GW			20
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-57B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		2		SM	CONCRETE	0
					ML	SILTY SAND: 75% sand, strong brown (7.5YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	2'
5	Direct Push	100%	0	B-57B-5'		SILT w/SAND: 85% silt, very dark gray (10YR 3/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor from 2' to 3'. No hydrocarbon odor from 4' to 8'.	5
					ML	SILT: 85% silt, 15% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. No hydrocarbon odor.	8'
10	Direct Push	100%	0				10
					CL	CLAY: 60% clay, 40% silt, light gray (10YR 7/1), moist, medium-stiff, low-plasticity. No hydrocarbon odor.	14'
15	Direct Push	100%	0				15
					MLS	SANDY SILT: 70% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	17.5'
20	Direct Push	100%	0				20
					SG	GRAVELLY SAND w/SILT: 50% sand, yellowish brown (10YR 5/6), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded. 30% gravel, fine-grained, with max gravel size of 1/4-inch. 15% silt, non-plastic. No hydrocarbon odor.	19'
25	<p>Geologist Terminated Boring at 20' - Target Depth Achieved</p> <p>First water bearing zone not encountered</p> <p>Soil boring was backfilled with neat cement grout.</p> <p>Surface completed with concrete patch to match surrounding grade.</p>						25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-58
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	8-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	8-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		1		SM	CONCRETE	0
			1		ML	SILTY SAND: 75% sand, strong brown (7.5YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	1.5'
			3			SILT w/SAND: 85% silt, very dark gray (GLE Y1 3/N), dry, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor, odor decreases with depth.	
5	Direct Push	100%	5	B-58-5'			5
			8			@7' - increase in clay content	
			6				9'
10	Direct Push	100%	0	B-58-10'	CL	CLAY w/SAND: 55% clay, 30% silt, gray (10YR 6/1), damp, stiff, low-plasticity. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	10
			0			@11' - soil becomes moist, medium-stiff.	
			0				15'
15	Direct Push	100%	0		CL	CLAY: 70% clay, 30% silt, light gray (10YR 7/1), moist, soft, medium-plasticity. No hydrocarbon odor.	15
			0			@17' - Color changes to yellowish brown (10YR 5/6).	18.5'
			4			GRAVELLY SAND w/SILT: 65% sand, dark greenish gray (GLE Y1 4/5GY), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine- to coarse-grained, with max gravel size of 1/2-inch. 15% silt, non-plastic. Strong hydrocarbon odor.	20'
20			192	B-58-20'		Geologist Terminated Boring at 20' - Target Depth Achieved	20
			834			First water bearing zone encountered at 18.5'	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-58A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		1		SM	CONCRETE	0
			139			SILTY SAND: 60% sand, dark yellowish brown (10YR 4/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 40% silt, non, plastic. No hydrocarbon odor.	
			1	B-58A-3'	ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 5/5GY), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor. @4' - color changes to brown (10YR 4/3), no hydrocarbon odor.	
5	Direct Push	100%	0				5
			0				
			0				
10	Direct Push	100%	0	B-58A-10'	ML	SILT: 90% silt, 10% clay, light brownish gray (10YR 6/2), damp, medium-stiff, non-plastic. No hydrocarbon odor. @11' - soil becomes moist, medium-stiff.	10
			0				
			0				
15	Direct Push	100%	0	B-58A-15'	CL	CLAY: 70% clay, 30% silt, light brownish gray (10YR 6/2), moist, stiff, low-plasticity. No hydrocarbon odor.	15
			0				
			0				
			0				
			0				
			0				
			0				
			0				
			0				
20	Direct Push	100%	0	B-58A-20'	SG	GRAVELLY SAND w/SILT: 60% sand, yellowish brown (10YR 5/6), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% gravel, fine-grained, with max gravel size of 1/4-inch. 15% silt, non-plastic. No hydrocarbon odor.	20
						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-59
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				SM	CONCRETE SILTY SAND: 75% sand, brown (10YR 4/3), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non, plastic. No hydrocarbon odor.	0
5	Direct Push	100%		B-58A-5'	MLS	BRICK from 4' to 5' SANDY SILT: 60% silt, light olive brown (2.5Y 5/6), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	5
10	Direct Push	100%		B-58A-10'	ML	SILT w/SAND: 85% silt, brown (10YR 4/3), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	10
15	Direct Push	100%			CL	@15' - Color changes to greenish gray (GLE Y1 5/5GY), slight hydrocarbon odor.	15
	Direct Push	100%			SM	CLAY: 60% clay, 30% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, low-plasticity. 10% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
						SILTY SAND: 65% sand, greenish gray (GLE Y1 5/5GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	
20				B-58A-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered FID not working properly while drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-60
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER					CONCRETE	0
						VOID SPACE	18"
5	Direct Push	100%		B-60-5'	SM	SILTY SAND: 60% sand, brown (10YR 4/3), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 40% silt, non-plastic. No hydrocarbon odor.	5
				ML	SILT w/SAND: 85% silt, very dark gray (10YR 3/1), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.	5.5'	
10	Direct Push	100%		B-60-10'	ML	SILT: 90% silt, 10% clay, yellowish brown (10YR 5/4), moist, medium-stiff, non-plastic. Slight hydrocarbon odor.	10
				ML	@13' - Increase in clay content to 30%, color grades to greenish gray (GLE Y1 5/5GY), moderate hydrocarbon odor.	9'	
15	Direct Push	100%		B-60-15'	MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
				SM	SILTY SAND: 70% sand, greenish gray (GLE Y1 5/5GY), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	17.5' 19.5' 20'	
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered FID not working properly during drilling. Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-60A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	8-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	8-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		0		SM	CONCRETE	0	
			0		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non, plastic. No hydrocarbon odor.		
			0			SILT w/SAND: 85% silt, black (10YR 2/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.		
			2					
			5					
5	Direct Push	100%	5	B-60A-5'			5	
				5				
				7			@7' - Increasing clay content.	
	Direct Push	100%	8		ML			
10				8		B-60A-10'	SILT: 70% silt, 30% clay, gray (GLE Y1 6/N), damp, very stiff, non-plastic. Slight hydrocarbon odor that increases with depth.	10
	Direct Push	100%	9					
				18				
				223				
15	Direct Push	100%	2,004					
				1,646	B-60A-15'			15
				2,350				
	Direct Push	100%	501					
				1,391		SG	GRAVELLY SAND w/SILT: 60% sand, dark greenish gray (GLE Y1 4/10Y), wet, dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% gravel, fine-grained, with max gravel size of 1/4-inch. 15% silt, non-plastic. Very strong hydrocarbon odor.	
				5,071				
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 19' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20	
25							25	
30							30	

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-60B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SM	CONCRETE	0
			0			SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non, plastic. No hydrocarbon odor.	
			1		ML	SILT w/SAND: 85% silt, very dark gray (10YR 3/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor from 3' to 4'. No hydrocarbon odor from 4' to 8.5'.	
5	Direct Push	100%	0				5
			0				
			0		ML	SILT: 80% silt, 20% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. No hydrocarbon odor.	
10	Direct Push	100%	0				10
			0				
			0				
15	Direct Push	100%	1	B-60B-15'		@15' - Color changes to greenish gray (GLE Y1 6/5GY), slight hydrocarbon odor.	15
			3				
			3				
			67		MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
			2,550	B-60B-19'			
			64		SM	SILTY SAND: 75% sand, greenish gray (GLE Y1 6/5GY), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non-plastic. Strong hydrocarbon odor.	
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-60C
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SM	CONCRETE	0
			0		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non, plastic. No hydrocarbon odor.	
			0				
			0				
5	Direct Push	100%	0	B-60C-5'			5
			0				
			0				
10	Direct Push	100%	0	B-60C-10'			10
			0				
			0				
15	Direct Push	100%	0	B-60C-15'	CL	CLAY: 70% clay, 30% silt, pale brown (10YR 6/3), moist, medium-stiff, medium-plasticity. No hydrocarbon odor.	15
			0				
			0				
20	Direct Push	100%	0		SM	SILTY SAND: 75% silt, yellowish brown (10YR 5/4), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	20
			0				
			0				
25						Geologist Terminated Boring at 20' - Target Depth Achieved	25
						First water bearing zone encountered at 18'	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-61
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	5-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	5-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE	0
			0				
			1				
			0		ML	SILT w/SAND: 50% silt, 30% clay, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. 20% sand, fine-grained, sub-angular. No hydrocarbon odor.	6'
5	Direct Push	100%	1		ML	SILT: 70% silt, 30% clay, very dark gray (10YR 3/1), damp, medium-stiff, non-plastic. No hydrocarbon odor.	4.5'
			0				
			0		ML	SILT: 100% silt, light yellowish brown (10YR 6/4), damp, medium-stiff, non-plastic. No hydrocarbon odor.	8.5'
10	Direct Push	100%	1	B-61-10'			10
			0				
			1				
			3				
			5		ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 5/10GY), moist, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	13'
15	Direct Push	100%	23	B-61-15'			15
			232				
			854				
			1,791				
			2,136				
			979		SM	SILTY SAND: 65% sand, greenish gray (GLE Y1 5/5GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	19'
20	Direct Push	NR		B-61-GW			20
25						Geologist Terminated Boring at 23' - Target Depth Achieved	25
						First water bearing zone encountered at 21'	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-61B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE	0
			0		MLS	SANDY SILT: 75% silt, brown (10YR 5/3), damp, medium-stiff, non-plastic. 25% sand, fine-to medium-grained, sub-angular. No hydrocarbon odor.	0
	Direct Push	100%	1	B-61B-5'	ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 5/5GY), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	1
			2				2
5	Direct Push	100%	0	B-61B-5'	ML	SILT: 80% silt, 20% clay, grayish brown (10YR 5/2), moist, medium-stiff, low-plasticity. Very slight hydrocarbon odor.	5
			0				0
10	Direct Push	100%	0	B-61B-15'	ML	SILT: 70% silt, 30% clay, gray (GLE Y1 5/N), moist, medium-stiff, low-plasticity. Moderate hydrocarbon odor.	10
			1				2
	Direct Push	100%	2	B-61B-15'	SM	SILTY SAND: 60% sand, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to coarse-grained, sub-angular. Moderate hydrocarbon odor.	15
			3				19'
15	Direct Push	100%	192	B-61B-15'	ML	SILT: 70% silt, 30% clay, gray (GLE Y1 5/N), moist, medium-stiff, low-plasticity. Moderate hydrocarbon odor.	15
			655				17'
	Direct Push	100%	423	B-61B-15'	SM	SILTY SAND: 60% sand, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to coarse-grained, sub-angular. Moderate hydrocarbon odor.	20
			558				19'
20			717			Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-61C
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	13-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	13-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		0		SM	CONCRETE	0	
			0		ML	SILTY SAND: 60% sand, yellowish brown (10YR 5/4), dry, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. No hydrocarbon odor.		
			15					
			103	B-61C-4'		SILT w/SAND: 85% silt, light brownish gray (10YR 6/2), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.		
5	Direct Push	100%	0		ML	SILT: 75% silt, 10% clay, brown (10YR 4/3), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. No hydrocarbon odor.	5	
			0					
			1					
			10					
	Direct Push	100%	32					
10			156	B-61C-10'	ML	SILT: 75% silt, 25% clay, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, low-plasticity. Slight hydrocarbon odor.	10	
			71					
			90					
	Direct Push	100%	654		CL	CLAY: 75% clay, 25% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, medium-plasticity. Strong hydrocarbon odor.		
			1,525					
			776	B-61C-15'				15
15	Direct Push	100%	1,269					
			1,176					
			4,509			SM	SILTY SAND w/GRAVEL: 45% sand, dark greenish gray (GLE Y1 4/5GY), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine-grained, with max gravel size of 1/4-inch. 35% silt, non-plastic. Strong hydrocarbon odor.	
			3,440					
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20	
25							25	
30							30	

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-61D
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	13-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	13-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE	0
5	Direct Push	100%	0			SILT w/SAND: 70% silt, 10% clay, pale brown (10YR 6/3), damp, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. @4' - color grades to dark gray (10YR 4/1).	5
10	Direct Push	100%	0	B-61D-10'		@8.5' - Color grades to pale brown (10YR 6/3), becomes moist.	10
15	Direct Push	100%	580	B-61D-15'		@11.5' - Color grades to greenish gray (GLE Y1 5/5GY), slight hydrocarbon odor.	15
	Direct Push	100%	473		SM	@15' - Moderate hydrocarbon odor.	15
	Direct Push	100%	124		SM	SILTY SAND: 60% sand, very dark greenish gray (GLE Y1 3/5GY), moist, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 40% silt, non-plastic. Strong hydrocarbon odor.	15
	Direct Push	100%	1,172		SM	SILTY SAND w/GRAVEL: 50% sand, very dark greenish gray (GLE Y1 3/5GY), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine-grained, with max gravel size of 1/4-inch. 30% silt, non-plastic. Strong hydrocarbon odor.	15
20			855	B-61D-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-61E
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER ↓		0		SM	CONCRETE	0	
			0		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/4), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	1.5'	
			0			SILT w/SAND: 85% silt, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.		
			0			@4' - Color grades to very dark grayish brown (10YR 4/2).		
5		Direct Push	100%	0	B-61E-5'		8'	5
	Direct Push	100%	0		ML	SILT: 80% silt, 20% clay, pale brown (10YR 6/3), moist, medium-stiff, non-plastic. No hydrocarbon odor.		
10	Direct Push	100%	0	B-61E-10'			13'	10
	Direct Push	100%	0		CL	CLAY: 60% clay, 40% silt, light gray (10YR 7/2), moist, medium-stiff, low-plasticity. No hydrocarbon odor.		
15	Direct Push	100%	0	B-61E-15'			18'	15
	Direct Push	100%	0		SG	GRAVELLY SAND w/SILT: 60% sand, yellowish brown (10YR 5/6), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 25% gravel, fine-grained, with max gravel size of 1/4-inch. 15% silt, non-plastic. No hydrocarbon odor.		
20			0	B-61E-20'			20'	20
						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.		
25								25
30								30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	5-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	5-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE SILT w/SAND: 50% silt, 30% clay, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. 20% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	0
5	Direct Push	NR	15		ML	SILT: 70% silt, 30% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. Strong hydrocarbon odor.	5
10	Direct Push	33%	14	B-62-8'	MLS	SANDY SILT: 70% silt, black (10YR 2/1), moist, medium-stiff, non-plastic. 25% sand, fine-to coarse-grained, sub-angular to sub-rounded. 5% gravel, fine-grained with maximum size of 1/4-inch. Oily texture, strong hydrocarbon odor.	10
15	Direct Push	100%	1	B-62-10'	ML	SILT: 90% silt, 10% clay, light yellowish brown (10YR 6/4), moist, medium-stiff, non-plastic. No hydrocarbon odor.	15
20	Direct Push	100%	2		ML	@14' - Color grades to gray (GLE Y1 4/N), moisture increases, density changes to soft, strong hydrocarbon odor.	20
25	Direct Push	100%	13		ML		25
30	Direct Push	100%	65		SM	SILTY SAND: 60% sand, gray (GLE Y1 5/N), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. Strong hydrocarbon odor.	30
			43				
			451				
			580				
			498	B-62-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE	0
			0			SANDY SILT: 75% silt, grayish brown (10YR 5/2), dry, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular, poorly graded. Slight hydrocarbon odor.	
			1		ML	SILT w/SAND: 85% silt, dark gray (10YR 4/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	
5	Direct Push	100%	2				5
			3				
			23		ML	SILT: 85% silt, 15% clay, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. Slight hydrocarbon odor.	
			12				
			8				
10	Direct Push	100%	10	B-62B-10'			10
			9				
			22				
			41				
			16			@14' - Increase in clay content to 40%, low-plasticity.	
15	Direct Push	100%	4				15
			2			@16' to 18' - soils are yellowish brown (10YR 5/6).	
			1				
			70				
			606		SM	SILTY SAND: 70% sand, dark greenish gray (GLE Y1 4/5GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	
20						Geologist Terminated Boring at 20' - Target Depth Achieved	20
						First water bearing zone not encountered	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62C
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		2		MLS	CONCRETE	0
			2			SANDY SILT: 70% silt, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Slightly hydrocarbon odor.	
			3				
	Direct Push	100%	25		ML	SILT w/SAND: 65% silt, 20% clay, greenish gray (GLE Y1 5/5GY), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
5			53	B-62C-5'			5
			60				
	Direct Push	100%	42				
			102				
10			47				
	Direct Push	100%	65	B-62C-10'		@10' - increase in clay content, soil becomes moist, low plasticity.	10
			15				
			60				
	Direct Push	100%	21		CL	CLAY: 55% clay, 40% silt, greenish gray (GLE Y1 6/5GY), moist, stiff, low-plasticity. 5% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	
15			8	B-62C-15'			15
			21				
	Direct Push	100%	2		CL	CLAY w/SAND: 70% clay, 10% silt, yellowish brown (10YR 5/6), moist, stiff, low-plasticity. 20% sand, fine- to medium-grained, sub-angular. Very slight hydrocarbon odor.	
			0				
			0			SP	POORLY GRADED SAND: 90% sand, yellowish brown (10YR 5/6), moist, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 10% silt, non-plastic. No hydrocarbon odor.
20						Geologist Terminated Boring at 20' - Target Depth Achieved	20
						First water bearing zone not encountered	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62D
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE 6'	0
			0			SANDY SILT: 75% silt, brown (10YR 5/3), damp, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
			1				
			21		ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 5/10Y), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor. @4' - color grades to black (GLE Y1 2.5/N).	
5	Direct Push	100%	23	B-62D-5'			5
			22				
			31		ML	SILT: 90% silt, 10% sand, greenish gray (GLE Y1 5/5GY), damp, medium-stiff, non-plastic. Moderate hydrocarbon odor. 7.5'	
	Direct Push	100%	450				
			450				
10	Direct Push	100%	210	B-62D-10'			10
			36				
	Direct Push	100%	9				
			12				
			20		CL	CLAY: 60% clay, 40% silt, light greenish gray (GLE Y1 7/5GY), moist, medium-stiff, low-plasticity. Slight hydrocarbon odor. 14'	
15	Direct Push	100%	38	B-62D-15'			15
			76				
	Direct Push	100%	90				
			149		SM	SILTY SAND w/GRAVEL: 55% sand, dark greenish gray (GLE Y1 4/10Y), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 15% gravel, fine-grained with max gravel size of 1/4-inch. 30% silt, non-plastic. Strong hydrocarbon odor. 18'	
			3,081	B-62D-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62E
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SM	CONCRETE	0
			0		ML	SILTY SAND: 75% sand, dark yellowish brown (10YR 4/6), damp, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor.	
			0			SILT w/SAND: 85% silt, pale brown (10YR 6/3), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	
			0			@4' - color changes to dark brown (10YR 3/3).	
5	Direct Push	100%	0	B-62E-5'			5
			0		ML	SILT: 90% silt, 10% clay, greenish gray (GLE Y1 6/10GY), moist, medium-stiff, non-plastic. No hydrocarbon odor.	
10	Direct Push	100%	0	B-62E-10'			10
			0		CL	CLAY: 70% clay, 30% silt, greenish gray (GLE Y1 6/10GY), moist, medium-stiff, non-plastic. No hydrocarbon odor.	
15	Direct Push	100%	0	B-62E-15'			15
			0		SM	SILTY SAND w/GRAVEL: 50% sand, very dark gray (GLE Y1 3/N), moist, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine-grained, with max gravel size of 1/4-inch. 30% silt, non-plastic. Strong hydrocarbon odor.	
20			1,975	B-62E-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-62F
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	<p>CONCRETE</p> <p>SILT w/SAND: 85% silt, brown (10YR 5/3), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.</p> <p>@3' - Color changes to dark brown (10YR 3/3).</p>	0
5	Direct Push	100%	0	B-62F-5'	ML	<p>SILT: 90% silt, 10% clay, pale brown (10YR 6/3), damp, medium-stiff, non-plastic. No hydrocarbon odor.</p>	5
10	Direct Push	100%	0	B-62F-10'	CL	<p>CLAY: 70% clay, 30% silt, pale brown (10YR 6/3), moist, stiff, medium-plasticity. No hydrocarbon odor.</p>	10
15	Direct Push	100%	0	B-62F-15'	SM	<p>SILTY SAND w/GRAVEL: 50% sand, dark yellowish brown (10YR 4/6), wet, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded. 20% gravel, fine-grained with max gravel size of 1/4-inch. 30% silt, non-plastic. Very slight hydrocarbon odor.</p>	15
20			2	B-62F-20'		<p>Geologist Terminated Boring at 20' - Target Depth Achieved</p> <p>First water bearing zone encountered at 17.5'</p> <p>Soil boring was backfilled with neat cement grout.</p> <p>Surface completed with concrete patch to match surrounding grade.</p>	20
25			4				25
30			4				30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-63
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	6-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	6-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	CONCRETE SILT w/SAND: 85% silt, very dark gray (10YR 3/1), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.	0
5	Direct Push	100%	0	B-63-6'			5
10	Direct Push	NR	16		ML	SILT: 60% silt, 40% clay, gray (10YR 5/1), moist, medium-stiff, low-plasticity. Moderate hydrocarbon odr.	10
15	Direct Push	NR	63				15
		25%	14	B-63-15'			
	Direct Push	100%	124		MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
			502				
			1,084				
			1,105				
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-64
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	6-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	6-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	CONCRETE SILT w/SAND: 90% silt, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. Slight hydrocarbon odor. @4' - color changes to black (10YR 2/1).	0
5	Direct Push	NR		B-64-8'			5
10	Direct Push	NR		B-64-12'	ML	SILT: 90% silt, 10% clay, very dark gray (GLE Y1 3/N), moist, medium-stiff, non-plastic. Strong hydrocarbon odor.	10
15	Direct Push	100%			MLS	SANDY SILT w/GRAVEL: 60% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 25% sand, fine- to coarse-grained, sub-angular to sub-rounded. 15% gravel, fine-grained, with max gravel size of 1/4-inch. Strong hydrocarbon odor.	15
15	Direct Push	100%			MLS	SANDY SILT: 70% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	5-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	5-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓		2		ML	CONCRETE SILT w/SAND: 70% silt, 20% clay, dark gray (10YR 4/1), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	0
			55				6'
			371				
			603				
5	Direct Push	NR	37	B-65-4'		@7' - Very slight hydrocarbon odor.	5
		33%	1				
10	Direct Push	NR			ML	SILT: 60% silt, 40% clay, black (10YR 2/1), moist, medium-stiff, low-plasticity. Very slight hydrocarbon odor.	10
		25%	2	B-65-11'			11'
15	Direct Push	NR			MLS	SANDY SILT: 65% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 35% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
		25%	1				17'
20	Direct Push	100%	4		SP	POORLY GRADED SAND w/SILT: 85% sand, dark greenish gray (GLE Y1 4/5GY), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 15% silt, non-plastic. Very strong hydrocarbon odor.	20
		100%	625				21'
			900				
			1,326				
			2,770				
			790				
			1,362	B-65-23'			
25						Geologist Terminated Boring at 23' - Target Depth Achieved First water bearing zone encountered at 21' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	7-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	8-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		5		MLS	CONCRETE	0
			142			SANDY SILT: 65% silt, 10% clay, greenish gray (GLE Y1 5/5GY), damp, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
			117				
			560				
			210	B-65A-5'		@5' - Black, oily soil present.	5
5	Direct Push	100%	22		ML	SILT: 100% silt, black (GLE Y1 2.5N), damp, medium-stiff, non-plastic. Moderate hydrocarbon odor.	5
			17				
			11				
	Direct Push	NR					
10	Direct Push	50%	4	B-65A-10'	ML	SILT w/SAND: 85% silt, brown (10YR 5/3), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	10
			3				
	Direct Push	NR	4		ML	SILT: 85% silt, 15% clay, greenish gray (GLE Y1 6/10GY), moist, medium-stiff, non-plastic. Very slight hydrocarbon odor.	13.5'
			4				
15	Direct Push	63%	5	B-65A-15'			15
			3				
			1			@17' to 18' - Color grades to grayish brown (10YR 5/2).	19'
			1			SANDY SILT: 75% silt, grayish brown (10YR 5/2), moist, medium-stiff, non-plastic. 25% sand, fine-grained, sub-angular. No hydrocarbon odor.	20'
			1	B-65A-20'	MLS		
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	8-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	8-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		1		MLS	CONCRETE	0	
			1			SANDY SILT: 60% silt, 10% clay, dark grayish brown (10YR 4/2), damp, medium-stiff, non-plastic. 30% sand, fine- to coarse-grained, sub-angular to sub-rounded. No hydrocarbon odor.		
			86		ML	SILT w/SAND: 85% silt, gray (GLE Y1 5/N), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.		
			124	B-65B-5'				
5	Direct Push	100%	5		ML	SILT: 100% silt, black (10YR 2/1), damp, medium-stiff, non-plastic. Slight hydrocarbon odor. @9' - Color grades to pale brown (10YR 6/3), no hydrocarbon odor.	5	
			2					
			2					
			2	NR				
10	Direct Push	50%	1	B-65B-10'			10	
			1					
			0	NR				
			0	63%				
15	Direct Push	100%	0	B-65B-15'			15	
			0					
			0					
			0			MLS	SANDY SILT: 50% silt, 20% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	19'
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20	
25							25	
30							30	

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65C
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE	0
			0			SILT w/SAND: 75% silt, 10% clay, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
			0				
			0				
			0		ML	SILT: 90% silt, black (10YR 2/1), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. No hydrocarbon odor.	
5	Direct Push	100%	0				5
			0			@9' - Decrease in sand content, 100% silt. Color grades to brown (10YR 4/3).	
			0				
10	Direct Push	100%	0				10
			0			@13' - increase in sand content to 10%, increase in clay content to 20%, color grades to light brownish gray (10YR 6/2), soil becomes moist.	
			0				
			0				
15	Direct Push	100%	6	B-65C-15'			15
			116				
			240			@17' - Color changes to greenish gray (GLEY1 5/5GY), moderate hydrocarbon odor.	
			2,523		MLS	SANDY SILT: 70% silt, greenish gray (GLEY1 5/5GY), moist, stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
			2,257	B-65C-20'			20
20						Geologist Terminated Boring at 20' - Target Depth Achieved	20
						First water bearing zone not encountered	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65D
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	11-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	11-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE SANDY SILT: 75% silt, light yellowish brown (10YR 6/4), dry, medium-stiff, non-plastic. 25% sand, fine- to coarse-grained, sub-angular. No hydrocarbon odor.	0
5	Direct Push	100%	1		ML	SILT w/SAND: 85% silt, brown (10YR 4/3), dry, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	5
10	Direct Push	100%	2	B-65D-10'	ML	SILT: 80% silt, 20% clay, gray (10YR 5/1), damp, medium-stiff, low-plasticity. No hydrocarbon odor.	10
15	Direct Push	100%	0	B-65D-15'	ML	SILT w/SAND: 50% silt, 35% clay, gray (10YR 6/1), moist, soft, low-plasticity. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	15
20	Direct Push	75%	0	B-65D-20'	SM	SILTY SAND: 60% sand, grayish brown (10YR 5/2), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. No hydrocarbon odor.	20
25						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 17.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65F
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE 6'	0
			2		ML	SANDY SILT: 75% silt, dark grayish brown (10YR 4/2), damp, medium-stiff, non-plastic. 25% sand, fine- to coarse-grained, sub-angular. Slight hydrocarbon odor. 2'	
5	Direct Push	100%	0	B-65F-5'		SILT w/SAND: 85% silt, light brownish gray (10YR 6/2), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor. @4' - Color changes to brown (10YR 4/3). 8.5'	5
			0		ML	SILT: 90% silt, 10% clay, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. No hydrocarbon odor. 13'	
10	Direct Push	100%	0	B-65F-10'		CLAY: 70% clay, 30% silt, yellowish brown (10YR 5/4), moist, soft, low-plasticity. No hydrocarbon odor. 18'	10
			0		CL		
15	Direct Push	100%	0	B-65F-15'		SILTY SAND w/GRAVEL: 60% sand, brown (10YR 4/3), wet, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 15% gravel, fine-grained, with max gravel size of 1/4-inch. 25% silt, non-plastic. No hydrocarbon odor. 20'	15
			0		B-65F-GW	SM	
20			0	B-65F-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65G
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	14-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	14-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	<p>CONCRETE</p> <p>SILT w/SAND: 85% silt, light yellowish brown (10YR 6/4), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.</p> <p>@2.5' - Color changes to very dark grayish brown (10YR 3/2).</p>	0
5	Direct Push	NR	0				5
		50%	0				
10	Direct Push	100%	0				10
			0				
15	Direct Push	NR	0		CL	<p>CLAY: 60% clay, 40% silt, light yellowish brown (10YR 6/4), moist, medium-stiff, low-plasticity. No hydrocarbon odor.</p>	15
		25%	0				
20	Direct Push	100%	0		SM	<p>SILTY SAND: 60% sand, dark yellowish brown (10YR 4/4), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. No hydrocarbon odor.</p>	20
			0				
25						<p>Geologist Terminated Boring at 20' - Target Depth Achieved</p> <p>First water bearing zone not encountered</p> <p>Soil boring was backfilled with neat cement grout.</p> <p>Surface completed with concrete patch to match surrounding grade.</p>	25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65H
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE	0
			1		MLS	SANDY SILT: 70% silt, dark yellowish brown (10YR 4/4), dry, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
	Direct Push	NR	8		ML	SILT w/SAND: 85% silt, greenish gray (GLEy1 5/10Y), dry, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.	
			12		ML	@4.5' - Color changes to dark grayish brown (10YR 4/2), no hydrocarbon odor.	
5	Direct Push	33%	1	B-65H-10'	ML	SILT: 90% silt, 10% clay, greenish gray (GLEy1 6/5GY), moist, medium-stiff, non-plastic. No hydrocarbon odor.	5
			0		ML		
	Direct Push	100%	0		CL	CLAY: 70% clay, 30% silt, grayish brown (10YR 5/2), moist, soft, low-plasticity. No hydrocarbon odor.	
			0		CL		
10	Direct Push	100%	1	B-65H-10'	ML	SILT: 90% silt, 10% clay, greenish gray (GLEy1 6/5GY), moist, medium-stiff, non-plastic. No hydrocarbon odor.	10
			4	CL			
	Direct Push	100%	0		CL	CLAY: 70% clay, 30% silt, grayish brown (10YR 5/2), moist, soft, low-plasticity. No hydrocarbon odor.	
			0		CL		
15	Direct Push	100%	0	B-65H-15'	SM	SILTY SAND: 70% sand, greenish gray (GLEy1 5/10Y), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. No hydrocarbon odor.	15
			0	SM			
	Direct Push	100%	0		SM	SILTY SAND: 70% sand, greenish gray (GLEy1 5/10Y), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. No hydrocarbon odor.	
			0		SM		
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18.5' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65I
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE	0
			0		ML	SANDY SILT: 70% silt, dark grayish brown (10YR 4/2), damp, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular, poorly graded. No hydrocarbon odor.	0
			0			SILT w/SAND: 85% silt, light greenish gray (GLE Y1 7/10Y), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	0
			0			@3.5' - Color changes to dark brown (10YR 3/3).	0
5	Direct Push	100%	0		ML	SILT: 90% silt, 10% clay, light gray (10YR 7/2), moist, soft, non-plastic. No hydrocarbon odor.	5
	Direct Push	100%	0				
10	Direct Push	100%	0		CL	CLAY: 60% clay, 40% silt, very pale brown (10YR 8/2), moist, soft, low-plasticity. No hydrocarbon odor.	10
	Direct Push	100%	0				
15			0	B-65I-15'		@17' - Color changes to brownish yellow (10YR 6/6).	15
	Direct Push	100%	0		SM	SILTY SAND: 70% sand, greenish gray (GLE Y1 5/5GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. Moderate hydrocarbon odor.	
			1				
			230	B-65I-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65J
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE SILT w/SAND: 85% silt, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. @4' - Color changes to very dark brown (10YR 2/2).	0
5	Direct Push	100%	0	B-65J-5'	ML	SILT : 90% silt, 10% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. No hydrocarbon odor.	5
10	Direct Push	100%	0	B-65J-10'	CL	CLAY : 80% clay, 20% silt, light yellowish brown (10YR 6/4), moist, soft, medium-plasticity. No hydrocarbon odor.	10
15	Direct Push	100%	0	B-65J-15'	CLS	SANDY CLAY w/GRAVEL : 50% clay, 10% silt, brown (10YR 5/3), moist, medium-stiff, low-plasticity. 25% fine- to coarse-grained sand, 15% fine-gravel, sub-angular to sub-rounded. No hydrocarbon odor.	15
20				B-65J-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65K
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE SILT w/SAND: 85% silt, dark yellowish brown (10YR 4/4), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. @3.5' - Color changes to very dark brown (10YR 2/2).	0
5	Direct Push	100%	0	B-65K-5'	ML	SILT: 90% silt, 10% clay, light yellowish brown (10YR 6/4), damp, medium-stiff, non-plastic. No hydrocarbon odor.	5
10	Direct Push	100%	0	B-65K-10'	CL	CLAY: 70% clay, 30% silt, pale brown (10YR 6/3), moist, medium-stiff, low-plasticity. No hydrocarbon odor.	10
15	Direct Push	100%	0	B-65K-15'	MLS	SANDY SILT: 65% silt, yellowish brown (10YR 5/6), moist, medium-stiff, non-plastic. 25% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	15
20			0	B-65K-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-65L
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	15-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	15-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		0		SM	CONCRETE 6"	0	
			0		ML	SILTY SAND: 75% sand, yellowish brown (10YR 5/6), dry, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 25% silt, non-plastic. No hydrocarbon odor. 2"		
			0				SILT w/SAND: 85% silt, pale brown (10YR 6/3), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
5			0	B-65L-5'				5
	Direct Push	100%	0					
			0		ML	SILT: 90% silt, 10% clay, pale brown (10YR 6/3), moist, medium-stiff, non-plastic. No hydrocarbon odor. 7.5"		
10	Direct Push	100%	0	B-65L-10'			10	
			0					
	Direct Push	100%	0		CL	CLAY: 80% clay, 20% silt, yellowish brown (10YR 5/4), moist, stiff, low-plasticity. No hydrocarbon odor. 13"		
15			0	B-65L-15'			15	
			0					
	Direct Push	100%	0		CLS	SANDY CLAY: 75% clay, yellowish brown (10YR 5/6), moist, stiff, medium-plasticity. 25% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. 17"		
20			0	B-65L-20'			20	
			0			Geologist Terminated Boring at 20' - Target Depth Achieved		
			0			First water bearing zone not encountered		
			0			Soil boring was backfilled with neat cement grout.		
			0			Surface completed with concrete patch to match surrounding grade.		
25							25	
30							30	

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-66
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	6-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	6-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE SILT w/SAND: 75% silt, 10% clay, gray (10YR 5/1), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Slight hydrocarbon odor.	0
5	Direct Push	100%	1 1 0 2				5
10	Direct Push	NR	5 8 3	B-66-10'	ML	SILT: 90% silt, 10% clay, very dark gray (GLE Y1 3/N), moist, soft, non-plastic. Moderate hydrocarbon odor.	10
15	Direct Push	50%	20 33	B-66-15'	MLS	SANDY SILT: 70% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
20	Direct Push	100%	17 346 52 311 1,640 1,645			Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-67
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	6-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	6-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	CONCRETE SILT w/SAND: 85% silt, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor. @4.5' - Color changes to black (10YR 2/1). @9' - Color changes to light yellowish brown (10YR 6/4)	0
5	Direct Push	100%		B-67-7'	ML	SILT: 90% silt, 10% clay, gray (GLE Y1 5/N), moist, medium-stiff, non-plastic. Moderate hydrocarbon odor.	5
10	Direct Push	100%		B-67-11'	MLS	SANDY SILT w/GRAVEL: 60% silt, gray (GLE Y1 5/N), moist, medium-stiff, non-plastic. 25% fine- to coarse-grained, sand, 15% fine-grained gravel, sub-angular to sub-rounded. Moderate hydrocarbon odor.	10
15	Direct Push	100%			SM	SILTY SAND: 60% sand, very dark greenish gray (GLE Y1 3/10Y), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. Strong hydrocarbon odor.	15
	Direct Push	100%			MLS	SANDY SILT: 70% silt, very dark greenish gray (GLE Y1 3/10Y), wet, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15.5' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-68
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	6-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	6-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE 6'	0
			0			SILT w/SAND: 65% silt, 20% clay, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	
			1				
			2				
			17		MLS	SANDY SILT: 75% silt, black (10YR 2/1), moist, soft, non-plastic. 25% sand, fine- to medium-grained, sub-angular. Slight hydrocarbon odor.	4'
5	Direct Push	100%	27	B-68-6'			5
			95				
			23				
	Direct Push	NR					
10							10
			8	B-68-11'	ML	SILT: 90% silt, 10% clay, light brownish gray (10YR 6/2), moist, medium-stiff, non-plastic. Slight hydrocarbon odor.	11'
	Direct Push	NR					
			11				15'
15			40		MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	15
			475				
	Direct Push	100%	513				
			707				
			1,510			@19' to 20' - Strong hydrocarbon odor.	20'
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-69
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	5-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	5-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		ML	CONCRETE SILT w/SAND: 70% silt, 20% clay, dark grayish brown (10YR 4/2), damp, medium-stiff, non-plastic. 10% sand, fine-grained, sub-angular. Very slight hydrocarbon odor.	0
5	Direct Push	100%	2 13 3 20 35 3				5
10	Direct Push	NR	20	B-69-10'	ML	SILT: 70% silt, 30% clay, gray (10YR 5/1), damp, medium-stiff, non-plastic. Slight hydrocarbon odor.	10
15	Direct Push	NR	8 18 30				15
15	Direct Push	50%	27 32				15
15	Direct Push	100%	409 961 5,280		MLS	SANDY SILT: 65% silt, gray (GLE Y1 5/N), moist, medium-stiff, non-plastic. 35% sand, fine-to medium-grained, sub-angular. Strong hydrocarbon odor.	15
20				B-69-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-70
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	7-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	7-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLG	CONCRETE GRAVELLY SILT w/SAND: 50% silt, yellowish brown (10YR 5/6), dry, stiff, non-plastic. 30% gravel, 20% sand, fine- to coarse-grained, sub-angular to sub-rounded, with max gravel size of 4-inch. Fill material. No hydrocarbon odor.	0
5	Direct Push	100%	0	B-70-6'	ML	SILT w/SAND: 65% silt, 20% clay, brown (10YR 5/3), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	5
10	Direct Push	75%	1		ML	SILT: 70% silt, 30% clay, black (10YR 2/1), damp, medium-stiff, non-plastic. Slight hydrocarbon odor. @7.5' - Color changes to brown (10YR 5/3), no hydrocarbon odor.	10
15	Direct Push	50%	12	B-70-15'	ML	SILT w/SAND: 85% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Moderate hydrocarbon odor.	15
20	Direct Push	75%	426		MLS	SANDY SILT: 70% silt, greenish gray (GLE Y1 5/5GY), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	20
25	Direct Push	75%	375		SM	SILTY SAND: 70% sand, greenish gray (GLE Y1 5/5GY), wet, loose, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 30% silt, non-plastic. Very strong hydrocarbon odor.	25
30			980			Geologist Terminated Boring at 24' - Target Depth Achieved First water bearing zone encountered at 22' Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	30
			3,578				

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-70A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	7-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	7-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		MLS	CONCRETE	0
5	Direct Push	100%	0			SANDY SILT w/GRAVEL: 65% silt, yellowish brown (10YR 5/4), damp, medium-stiff, non-plastic. 25% fine- to coarse-grained, sand, 10% fine gravel, sub-angular, with max gravel size of 1/4-inch. No hydrocarbon odor.	5
10	Direct Push	NR	0	B-70A-10'			10
15	Direct Push	50%	1		ML	SILT: 90% silt, 10% clay, dark gray (GLE Y1 4/N), moist, soft, non-plastic. Very slight hydrocarbon odor.	15
	Direct Push	100%	2		MLS	SANDY SILT: 75% silt, greenish gray (GLE Y1 6/5GY), moist, medium-stiff, non-plastic. 25% sand, fine-grained, sub-angular. Strong hydrocarbon odor.	15
	Direct Push	100%	7	B-70A-15'	SM	SILTY SAND: 70% sand, greenish gray (GLE Y1 6/10GY), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 30% silt, non-plastic. Strong hydrocarbon odor.	15
20			40			Geologist Terminated Boring at 20' - Target Depth Achieved	20
			102			First water bearing zone not encountered	20
			470			Soil boring was backfilled with neat cement grout.	20
			611			Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-70B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	8-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	8-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		0		MLS	CONCRETE	0	
			1				SANDY SILT: 60% silt, 10% clay, dark grayish brown (10YR 4/2), dry, medium-stiff, non-plastic. 30% sand, fine- to coarse-grained, sub-angular to sub-rounded. No hydrocarbon odor.	
			0			ML	SILT w/SAND: 85% silt, gray (10YR 5/1), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
			0					
5	Direct Push	100%		B-70B-5'			5	
	Direct Push	NR						
10	Direct Push	50%		B-70B-10'		@10' - Color changes to black (10YR 2/1), soil becomes black.	10	
	Direct Push	NR						
15	Direct Push	50%		B-70B-15'			15	
	Direct Push	100%			ML	SILT: 100% silt, gray (GLE Y1 5/N), moist, medium-stiff, non-plastic. Moderate hydrocarbon odor.		
	Direct Push	100%						
					SM	SILTY SAND: 60% sand, gray (GLE Y1 5/N), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 40% silt, non-plastic. Moderate hydrocarbon odor.		
				B-70B-20'				
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20	
25							25	
30							30	

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-70C
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	13-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	13-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SG	CONCRETE	0
			0			GRAVELLY SAND w/SILT: 50% sand, yellowish brown (10YR 5/4), dry, very dense, fine- to coarse-grained, sub-angular. 30% gravel, fine- to coarse-grained, with max gravel size of 3/4-inch. 20% silt, non-plastic. No hydrocarbon odor.	
			1		ML	SILT w/SAND: 85% silt, dark grayish brown (10YR 4/2), damp, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
5	Direct Push	100%	1	B-70C-5'		@4' - Color changes to dark gray (10YR 4/1).	5
			11			@7' - Slight hydrocarbon odor.	
			27			@10' - Moderate hydrocarbon odor.	
10	Direct Push	100%	59				10
			73				
			35	B-70C-11'			
			238				
	Direct Push	NR	230		ML	SILT: 75% silt, 25% clay, very dark greenish gray (GLEY1 3/10Y), moist, soft, low-plasticity. Strong hydrocarbon odor.	
		75%	383				
15			476	B-70C-15'			15
			176				
	Direct Push	100%	183		MLS	SANDY SILT: 70% silt, yellowish brown (10YR 5/4), moist, medium-stiff, non-plastic. 30% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	
			370			SILTY SAND: 75% sand, yellowish brown (10YR 5/4), moist, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 25% silt, non-plastic. Slight hydrocarbon odor.	
			20	B-70C-20'	SM		
20						Geologist Terminated Boring at 20' - Target Depth Achieved	20
						First water bearing zone not encountered	
						Soil boring was backfilled with neat cement grout.	
						Surface completed with concrete patch to match surrounding grade.	
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-70D
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	13-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	13-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SG	CONCRETE	0
			0			GRAVELLY SAND w/SILT: 50% sand, yellowish brown (10YR 5/4), dry, very dense, fine- to coarse-grained, sub-angular. 30% gravel, fine- to coarse-grained, with max gravel size of 1/2-inch. 20% silt, non-plastic. No hydrocarbon odor.	
			0		ML	SILT w/SAND: 85% silt, grayish brown (10YR 5/2), damp, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. No hydrocarbon odor.	
5	Direct Push	100%	0	B-70D-5'			5
			0		ML	SILT: 90% silt, 10% clay, brown (10YR 5/3), moist, medium-stiff, non-plastic. No hydrocarbon odor.	
10	Direct Push	100%	0	B-70D-10'			10
			0			@14' - Increased clay content, low-plasticity.	
15	Direct Push	100%	0	B-70D-15'			15
			0		SM	SILTY SAND: 70% sand, yellowish brown (10YR 5/4), moist, medium-dense, fine- to meduim-grained, sub-angular, poorly graded. 30% silt, non-plastic. No hydrocarbon odor.	
20			0	B-70D-20'		Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-71
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	7-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	7-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER		0		SG	CONCRETE GRAVELLY SILT w/SAND: 50% silt, yellowish brown (10YR 5/6), dry, stiff, non-plastic. 35% gravel, fine- to coarse-grained, with max gravel size of 2-inch. 15% sand, fine- to coarse-grained, sub-angular to sub-rounded. Fill material. No hydrocarbon odor.	0
5	Direct Push	100%	16	B-71-5'	ML	BRICK SILT w/SAND: 75% silt, 10% clay, very dark gray (10YR 3/1), moist, medium-stiff, non-plastic. 15% sand, fine-grained, sub-angular. Slight hydrocarbon odor.	5
10	Direct Push	NR	20				10
	Direct Push	50%	15	B-71-10'			
	Direct Push		9				
	Direct Push		34				
	Direct Push	100%	43			@13.5' - Color grades to greenish gray (GLE Y1 5/5GY). Moderate hydrocarbon odor.	
	Direct Push		33				
15	Direct Push	100%	181		MLS	SANDY SILT: 60% silt, very dark gray (GLE Y1 3/N), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Very strong hydrocarbon odor.	15
	Direct Push		375				
	Direct Push	100%	1,771				
	Direct Push		2,380				
	Direct Push		2,250	B-71-20'			
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone not encountered Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-72
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				MLG	ASPHALT	0
5	Direct Push	100%		B-72-5'	CLS	GRAVELLY SILT w/SAND: 40% silt, brown (10YR 4/3), damp, medium-stiff, non-plastic. 35% gravel, 25% sand, fine- to coarse-grained, sub-angular to sub-rounded, with max gravel size of 3/4-inch. No hydrocarbon odor.	5
10	Direct Push	NR				SANDY CLAY: 60% clay, 15% silt, dark greenish gray (GLE Y1 4/10Y), moist, medium-stiff, low-plasticity. 25% sand, fine- to coarse-grained, sub-angular. Moderate hydrocarbon odor.	10
15	Direct Push	50%		B-72-15'	SM	SILTY SAND: 80% sand, dark greenish gray (GLE Y1 4/10Y), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 20% silt, non-plastic. Strong hydrocarbon odor.	15
20	Direct Push	NR				Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15.5' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-72A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	12-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	12-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)	
0	HAND AUGER		5		SM	ASPHALT	0	
			7			SILTY SAND: 60% sand, brown (10YR 4/3), damp, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 40% silt, non-plastic. Slight hydrocarbon odor.		
			18		ML	B-72A-10'	SILT w/SAND: 65% silt, 20% clay, very dark greenish gray (GLE Y1 3/10Y), moist, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	
			34					
5	Direct Push	100%	263				5	
			950					
			505					
	Direct Push	NR	525					
			396					
10	Direct Push	75%	1,750				10	
			1,139					
			162					
			168					
	Direct Push	100%	87					
			2,165					
			931					
15	Direct Push	100%	>6,000		SM	SILTY SAND: 75% sand, very dark gray (GLE Y1 3/N), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 25% silt, non-plastic. Very strong hydrocarbon odor.	15	
			1,760					
			>6,000					
20							20	
						Geologist Terminated Boring at 20' - Target Depth Achieved		
						First water bearing zone encountered at 15'		
						FID not working properly during drilling		
						Soil boring was backfilled with neat cement grout.		
						Surface completed with concrete patch to match surrounding grade.		
25							25	
30							30	

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-73
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				GS	ASPHALT SANDY GRAVEL w/SILT: 50% gravel, 35% sand, dark gray (10YR 4/1), damp, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded, with max gravel size of 3/4-inch. 15% silt, non-plastic. Moderate hydrocarbon odor.	0
5	Direct Push	100%			ML	SILT w/SAND: 90% silt, very dark greenish gray (GLE Y1 3/10Y), moist, medium-stiff, non-plastic. 10% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor. @7' to 8.5' - Slight increase in sand content.	5
10	Direct Push	100%		B-73-10'	ML	SILT: 75% silt, 25% clay, greenish gray (GLE Y1 6/10Y), moist, soft, non-plastic. Strong hydrocarbon odor.	10
15	Direct Push	100%			MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 6/10Y), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Very strong hydrocarbon odor.	15
20	Direct Push	100%			SP	POORLY GRADED SAND w/SILT: 85% sand, greenish gray (GLE Y1 5/10Y), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 15% silt, non-plastic. Very strong hydrocarbon odor.	20
25						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 17' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-74
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				GS	ASPHALT SANDY GRAVEL w/SILT: 50% gravel, 35% sand, dark gray (10YR 4/1), damp, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded, with max gravel size of 3/4-inch. 15% silt, non-plastic. Slight hydrocarbon odor.	0
5	Direct Push	100%			ML	SILT w/SAND: 90% silt, very dark greenish gray (GLE Y1 3/10Y), moist, medium-stiff, non-plastic. 10% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor. @7' to 8.5' - Slight increase in sand content.	5
10	Direct Push	100%		B-74-10'	ML	SILT: 75% silt, 25% clay, greenish gray (GLE Y1 6/10Y), moist, soft, non-plastic. Moderate hydrocarbon odor.	10
15	Direct Push	100%		B-74-15'	MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 6/10Y), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	15
17	Direct Push	100%			SP	POORLY GRADED SAND w/SILT: 85% sand, greenish gray (GLE Y1 5/10Y), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 15% silt, non-plastic. Strong hydrocarbon odor.	17
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 17' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-75
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				GS	ASPHALT	0
5	Direct Push	100%			ML	SANDY GRAVEL w/SILT: 50% gravel, 30% sand, dark grayish brown (10YR 4/2), damp, medium-dense, fine- to coarse-grained, sub-angular to sub-rounded, poorly graded, with max gravel size of 1-inch. 20% silt, non-plastic. Moderate hydrocarbon odor.	5
10	Direct Push	100%		B-75-10'	ML	SILT w/SAND: 90% silt, very dark greenish gray (GLE Y1 3/10Y), moist, soft, non-plastic. 10% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor. @7' - Color changes to greenish gray (GLE Y1 6/5GY). Slight hydrocarbon odor.	10
15	Direct Push	100%			ML	SILT: 75% silt, 25% clay, light greenish gray (GLE Y1 7/10Y), moist, medium-stiff, non-plastic. Slight hydrocarbon odor.	15
20	Direct Push	100%			SP	POORLY GRADED SAND w/SILT: 85% sand, dark greenish gray (GLE Y1 4/10Y), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 15% silt, non-plastic. Strong hydrocarbon odor.	20
25						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-76
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					1' CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2						SILT w/SAND: 85% silt, dark gray (10YR 4/1), wet, stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	2
3				B-76-3'	ML	Geologist Terminated Boring at 3' - Refusal Encountered Groundwater encountered immediately after coring concrete FID not working properly during drilling Soil boring was backfilled with medium bentonite chips.	3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-77
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					8" CONCRETE	0
1				B-77-GW		GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2					ML	SILT w/SAND: 85% silt, dark gray (10YR 4/1), wet, stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	2
3							3
4					B-77-5'		4
5						Geologist Terminated Boring at 5' - Target Depth Achieved Groundwater encountered immediately after coring concrete FID not working properly during drilling Soil boring was backfilled with medium bentonite chips.	5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-78
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					1' 6" CONCRETE	0
1							1
2						GRAVEL FILL:	2
3				B-76-3'	ML	SILT w/SAND: 85% silt, very dark gray (10YR 3/1), wet, stiff, non-plastic. 15% sand, fine-to medium-grained, sub-angular. Strong hydrocarbon odor.	3
4						Geologist Terminated Boring at 3' - Refusal Encountered	4
5						Groundwater encountered immediately after coring concrete	5
6						FID not working properly during drilling	6
7						Soil boring was backfilled with medium bentonite chips.	7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-79
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓			B-79-0.5'		6" CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2						SILT w/SAND: 60% silt, 25% clay, very dark gray (GLE Y1 3/N), wet, stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	2
3					ML	Geologist Terminated Boring at 3' - Refusal Encountered Groundwater encountered immediately after coring concrete FID not working properly during drilling Soil boring was backfilled with medium bentonite chips.	3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-80
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					8" CONCRETE	0
1				B-80-GW		GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2					MLS	SANDY SILT: 60% silt, very dark greenish gray (GLE Y1 3/10Y), wet, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	2
3							3
4							4
5				B-80-5'		5'	5
6						Geologist Terminated Boring at 5' - Target Depth Achieved	6
7						Groundwater encountered immediately after coring concrete	7
8						FID not working properly during drilling	8
9						Soil boring was backfilled with medium bentonite chips.	9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-81
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					8" CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2				B-81-1.5'	MLS	SANDY SILT: 60% silt, dark greenish gray (GLE Y1 4/5GY), wet, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	2
3						Geologist Terminated Boring at 3' - Refusal Encountered	3
4						Groundwater encountered immediately after coring concrete	4
5						FID not working properly during drilling	5
6						Soil boring was backfilled with medium bentonite chips.	6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-82A
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					6" CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2				B-82A-1.5'	MLS	SILTY SAND: 65% sand, greenish gray (GLY1 5/5GY), wet, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	2
3							3
4							4
5						Geologist Terminated Boring at 5' - Target Depth Achieved Groundwater encountered immediately after coring concrete FID not working properly during drilling Soil boring was backfilled with medium bentonite chips.	5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-82B
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					6" CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2				B-82B-2'	MLS	SILTY SAND: 65% sand, greenish gray (GLY1 5/5GY), wet, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	2
3							3
4							4
5						Geologist Terminated Boring at 5' - Target Depth Achieved Groundwater encountered immediately after coring concrete FID not working properly during drilling Soil boring was backfilled with medium bentonite chips.	5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-83
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER ↓					6" CONCRETE	0
1				B-83-GW	SM	GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2				B-83-1'		SILTY SAND: 65% sand, greenish gray (GLE Y1 5/5GY), wet, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	2
3							3
4				B-83-4'			4
5				B-83-5'			5
6						Geologist Terminated Boring at 5' - Target Depth Achieved	6
7					Groundwater encountered immediately after coring concrete	7	
8					FID not working properly during drilling	8	
9					Soil boring was backfilled with medium bentonite chips.	9	
10						10	
11						11	
12						12	
13						13	
14						14	
15						15	
16						16	

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-84
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	4-Jan-16	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	4-Jan-16		Gregg C-57 #485165
DRILLING METHOD:	Hand Auger (2-inch diameter bucket)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER					8" CONCRETE	0
1						GRAVEL FILL: 80% gravel, black (10YR 2/1), wet, mostly coarse-grained, angular. 20% sand and silt. Strong hydrocarbon odor.	1
2				B-84-1.5'	SM	SILTY SAND: 65% sand, greenish gray (GLE Y1 5/5GY), wet, medium-dense, fine- to coarse-grained, sub-angular, poorly graded. 35% silt, non-plastic. Strong hydrocarbon odor.	2
3							3
4							4
5						Geologist Terminated Boring at 5' - Target Depth Achieved	5
6						Groundwater encountered immediately after coring concrete	6
7						FID not working properly during drilling	7
8						Soil boring was backfilled with medium bentonite chips.	8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-85
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	ASPHALT SILT w/SAND: 80% silt, dark grayish brown (10YR 4/2), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	0
5	Direct Push	100%			ML	SILT: 85% silt, 15% clay, yellowish brown (10YR 5/4), moist, medium-stiff, non-plastic. No hydrocarbon odor. @8.5' - Color changes to light yellowish brown (2.5Y 6/3), increase in clay content to 40%, low-plasticity.	5
10	Direct Push	100%					10
15	Direct Push	100%			SC	CLAYEY SAND: 70% sand, light yellowish brown (10YR 6/4), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 30% clay, low-plasticity. No hydrocarbon odor.	15
				B-85-GW B-85-16'	CL	CLAY w/SAND: 70% clay, 10% silt, light brownish gray (10YR 6/2), moist, medium-stiff, low-plasticity. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15.5' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-86
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	ASPHALT SILT w/SAND: 80% silt, dark yellowish brown (10YR 4/4), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	0
5	Direct Push	100%			ML	SILT: 85% silt, 10% clay, yellowish brown (10YR 5/4), moist, medium-stiff, non-plastic. 5% sand, fine-grained, sub-angular. No hydrocarbon odor. @8.5' - Color changes to light yellowish brown (2.5Y 6/3), low-plasticity soils.	5
10	Direct Push	100%					10
15	Direct Push	100%		B-86-15'	SC	CLAYEY SAND: 70% sand, light brownish gray (10YR 6/2), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 30% clay, non-plastic. No hydrocarbon odor.	15
	Direct Push	100%			CL	CLAY w/SAND: 70% clay, 10% silt, light brownish gray (10YR 6/2), moist, medium-stiff, low-plasticity. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-87
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	ASPHALT 6'	0
5	Direct Push	100%			ML	SILT w/SAND: 80% silt, dark yellowish brown (10YR 4/4), moist, medium-stiff, non-plastic. 20% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. 4'	5
10	Direct Push	100%		B-87-10'	CL	CLAY w/SAND: 65% clay, 20% silt, grayish brown (10YR 5/2), moist, medium-stiff, low-plasticity. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. 10.5'	10
15	Direct Push	100%			CLS	SANDY CLAY: 50% clay, 20% silt, grayish brown (10YR 5/2), moist, medium-stiff, low-plasticity. 30% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor. 12'	15
20	Direct Push	100%		B-87-20'	SC	CLAYEY SAND: 80% sand, brown (10YR 5/3), wet, medium-dense, fine- to medium-grained, sub-angular, poorly graded. 20% clay, non-plastic. No hydrocarbon odor. 15'	20
25						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 15' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	25
30							30

Boring Backfilled with Neat Cement Grout

PROJECT NAME:	Owen's Brockway Glass Container Facility	LOG OF BORING:	B-88
SITE ADDRESS:	3600 Alameda Avenue Oakland, California	BOREHOLE DIAM. (in):	2"
DATE STARTED:	30-Dec-15	DRILLER/COMPANY:	Daniel Gallosa
DATE COMPLETED:	30-Dec-15		Gregg C-57 #485165
DRILLING METHOD:	Direct Push (2" OD Casing) Continuous Core Samples (1-1/4" diameter)	GEOLOGIST/ENGINEER:	B. Whalen, P.G. #9009 Sierra West Consultants, Inc.

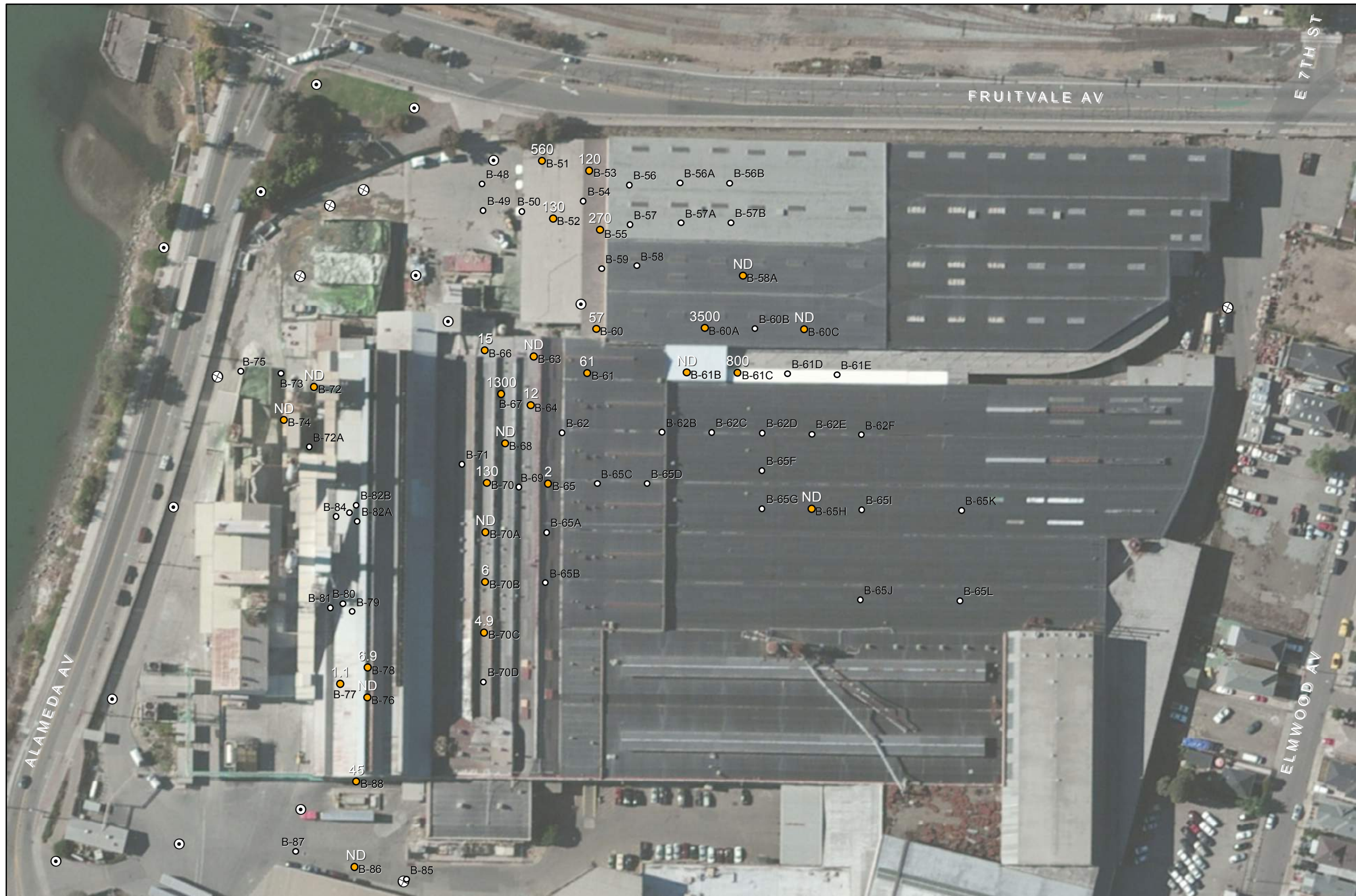
DEPTH (Feet)	Sample Interval	Recovery (%)	FID (ppm)	SAMPLE NUMBER	USCS SYMBOL	DESCRIPTION	DEPTH (Feet)
0	HAND AUGER				ML	ASPHALT SILT w/SAND: 75% silt, 10% clay, dark gray (10YR 4/1), moist, medium-stiff, non-plastic. 15% sand, fine- to medium-grained, sub-angular. No hydrocarbon odor.	0
5	Direct Push	100%					5
10	Direct Push	NR					10
	Direct Push	50%		B-88-11'	CLS	SANDY CLAY: 60% clay, 10% silt, very dark greenish gray (GLE Y1 3/10Y, moist, soft, low-plasticity. 30% sand, fine- to medium-grained, sub-angular. Strong hydrocarbon odor.	10
	Direct Push	NR					
	Direct Push	75%			MLS	SANDY SILT: 60% silt, greenish gray (GLE Y1 5/10GY), moist, medium-stiff, non-plastic. 40% sand, fine- to medium-grained, sub-angular. Moderate hydrocarbon odor.	15
15				B-88-15'			15
	Direct Push	100%			SM	SILTY SAND: 75% sand, greenish gray (GLE Y1 6/10Y), wet, medium-dense, fine- to medium-grained, sub-angular to sub-rounded, poorly graded. 25% silt, non-plastic. Moderate hydrocarbon odor.	18
				B-88-20'			20
20						Geologist Terminated Boring at 20' - Target Depth Achieved First water bearing zone encountered at 18' FID not working properly during drilling Soil boring was backfilled with neat cement grout. Surface completed with concrete patch to match surrounding grade.	20
25							25
30							30

Boring Backfilled with Neat Cement Grout

APPENDIX B



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in mg/kg

Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in mg/kg

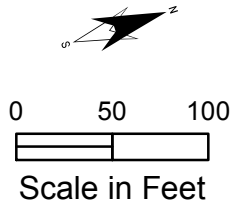
Drawn by PAD. 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in mg/kg



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



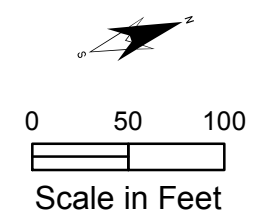
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in mg/kg



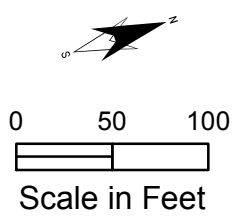
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in mg/kg

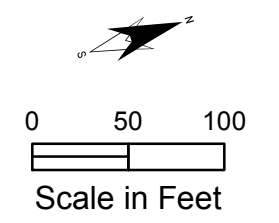


Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



- EXPLANATION**
- Sample
 - Sample Not Analyzed
 - ⊙ Monitoring Well
 - ⊗ Destroyed Well

Concentrations shown in mg/kg



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in ug/l

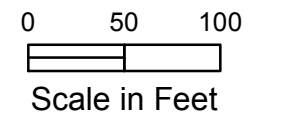
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample with TPH(d)
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in ug/l



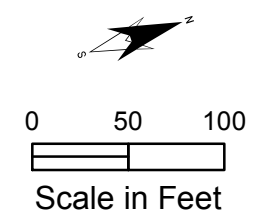
Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.



EXPLANATION

- Sample
- Sample Not Analyzed
- ⊙ Monitoring Well
- ⊗ Destroyed Well

Concentrations shown in ug/l



Drawn by PAD, 2015. Base layers are unmodified ESRI Digital Data Sets.

APPENDIX C



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1512A13

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owens Brockway, 3600 Alameda Ave, Oakland

Project Received: 12/31/2015

Analytical Report reviewed & approved for release on 01/07/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave, Oakland
WorkOrder: 1512A13

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave, Oakland
WorkOrder: 1512A13

Analytical Qualifiers

S spike recovery outside accepted recovery limits
b1 aqueous sample that contains greater than ~1 vol. % sediment
c4 surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d7 strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9 no recognizable pattern
e2 diesel range compounds are significant; no recognizable pattern
e3 aged diesel is significant
e7 oil range compounds are significant
e8 kerosene/kerosene range/jet fuel range
e11 stoddard solvent/mineral spirit (?)

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	26	1.0	1	01/02/2016 14:24
MTBE	---	0.050	1	01/02/2016 14:24
Benzene	---	0.0050	1	01/02/2016 14:24
Toluene	---	0.0050	1	01/02/2016 14:24
Ethylbenzene	---	0.0050	1	01/02/2016 14:24
Xylenes	---	0.015	1	01/02/2016 14:24

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	95	70-130	01/02/2016 14:24

Analyst(s): IA Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-20'	1512A13-003A	Soil	12/28/2015 14:30	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	5.6	1.0	1	01/03/2016 00:23
MTBE	---	0.050	1	01/03/2016 00:23
Benzene	---	0.0050	1	01/03/2016 00:23
Toluene	---	0.0050	1	01/03/2016 00:23
Ethylbenzene	---	0.0050	1	01/03/2016 00:23
Xylenes	---	0.015	1	01/03/2016 00:23

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	104	70-130	01/03/2016 00:23

Analyst(s): IA Analytical Comments: d7

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-49-10'	1512A13-004A	Soil	12/28/2015 13:45	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	320	20	20	01/02/2016 11:54
MTBE	---	1.0	20	01/02/2016 11:54
Benzene	---	0.10	20	01/02/2016 11:54
Toluene	---	0.10	20	01/02/2016 11:54
Ethylbenzene	---	0.10	20	01/02/2016 11:54
Xylenes	---	0.30	20	01/02/2016 11:54

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	97	70-130	01/02/2016 11:54

Analyst(s): IA Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	940	100	100	01/02/2016 16:24
MTBE	---	5.0	100	01/02/2016 16:24
Benzene	---	0.50	100	01/02/2016 16:24
Toluene	---	0.50	100	01/02/2016 16:24
Ethylbenzene	---	0.50	100	01/02/2016 16:24
Xylenes	---	1.5	100	01/02/2016 16:24

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	85	70-130	01/02/2016 16:24

Analyst(s): IA Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 12/31/15 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC7	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1600	200	200	01/05/2016 06:19
MTBE	---	10	200	01/05/2016 06:19
Benzene	---	1.0	200	01/05/2016 06:19
Toluene	---	1.0	200	01/05/2016 06:19
Ethylbenzene	---	1.0	200	01/05/2016 06:19
Xylenes	---	3.0	200	01/05/2016 06:19

Surrogates	REC (%)	Limits	
aaa-TFT	90	70-130	01/05/2016 06:19

Analyst(s): IA Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-52-15'	1512A13-010A	Soil	12/28/2015 15:30	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	130	20	20	01/02/2016 13:24
MTBE	---	1.0	20	01/02/2016 13:24
Benzene	---	0.10	20	01/02/2016 13:24
Toluene	---	0.10	20	01/02/2016 13:24
Ethylbenzene	---	0.10	20	01/02/2016 13:24
Xylenes	---	0.30	20	01/02/2016 13:24

Surrogates	REC (%)	Limits	
2-Fluorotoluene	104	70-130	01/02/2016 13:24

Analyst(s): IA Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 12/31/15 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-15'	1512A13-013A	Soil	12/29/2015 11:45	GC7	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	120	33	33	01/05/2016 00:46
MTBE	---	1.7	33	01/05/2016 00:46
Benzene	---	0.17	33	01/05/2016 00:46
Toluene	---	0.17	33	01/05/2016 00:46
Ethylbenzene	---	0.17	33	01/05/2016 00:46
Xylenes	---	0.50	33	01/05/2016 00:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	128	70-130		01/05/2016 00:46

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC7	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	32	1.0	1	01/05/2016 00:16
MTBE	---	0.050	1	01/05/2016 00:16
Benzene	---	0.0050	1	01/05/2016 00:16
Toluene	---	0.0050	1	01/05/2016 00:16
Ethylbenzene	---	0.0050	1	01/05/2016 00:16
Xylenes	---	0.015	1	01/05/2016 00:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	120	70-130		01/05/2016 00:16

Analyst(s): IA

Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-10'	1512A13-015A	Soil	12/29/2015 12:20	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	100	20	20	01/02/2016 22:24
MTBE	---	1.0	20	01/02/2016 22:24
Benzene	---	0.10	20	01/02/2016 22:24
Toluene	---	0.10	20	01/02/2016 22:24
Ethylbenzene	---	0.10	20	01/02/2016 22:24
Xylenes	---	0.30	20	01/02/2016 22:24

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	104	70-130	01/02/2016 22:24

Analyst(s): IA Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	260	100	100	01/02/2016 21:54
MTBE	---	5.0	100	01/02/2016 21:54
Benzene	---	0.50	100	01/02/2016 21:54
Toluene	---	0.50	100	01/02/2016 21:54
Ethylbenzene	---	0.50	100	01/02/2016 21:54
Xylenes	---	1.5	100	01/02/2016 21:54

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	106	70-130	01/02/2016 21:54

Analyst(s): IA Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-55-10'	1512A13-018A	Soil	12/29/2015 13:40	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 03:23
MTBE	---	0.050	1	01/03/2016 03:23
Benzene	---	0.0050	1	01/03/2016 03:23
Toluene	---	0.0050	1	01/03/2016 03:23
Ethylbenzene	---	0.0050	1	01/03/2016 03:23
Xylenes	---	0.015	1	01/03/2016 03:23

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	105	70-130	01/03/2016 03:23

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-55-15'	1512A13-019A	Soil	12/29/2015 13:45	GC7	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	270	20	20	01/05/2016 01:17
MTBE	---	1.0	20	01/05/2016 01:17
Benzene	---	0.10	20	01/05/2016 01:17
Toluene	---	0.10	20	01/05/2016 01:17
Ethylbenzene	---	0.10	20	01/05/2016 01:17
Xylenes	---	0.30	20	01/05/2016 01:17

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	111	70-130	01/05/2016 01:17

Analyst(s): IA

Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56-15'	1512A13-022A	Soil	12/29/2015 15:10	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/02/2016 17:24
MTBE	---	0.050	1	01/02/2016 17:24
Benzene	---	0.0050	1	01/02/2016 17:24
Toluene	---	0.0050	1	01/02/2016 17:24
Ethylbenzene	---	0.0050	1	01/02/2016 17:24
Xylenes	---	0.015	1	01/02/2016 17:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	113	70-130		01/02/2016 17:24

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56-20'	1512A13-023A	Soil	12/29/2015 15:15	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	140	20	20	01/02/2016 17:54
MTBE	---	1.0	20	01/02/2016 17:54
Benzene	---	0.10	20	01/02/2016 17:54
Toluene	---	0.10	20	01/02/2016 17:54
Ethylbenzene	---	0.10	20	01/02/2016 17:54
Xylenes	---	0.30	20	01/02/2016 17:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/02/2016 17:54

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	870	100	100	01/02/2016 21:24
MTBE	---	5.0	100	01/02/2016 21:24
Benzene	---	0.50	100	01/02/2016 21:24
Toluene	---	0.50	100	01/02/2016 21:24
Ethylbenzene	---	0.50	100	01/02/2016 21:24
Xylenes	---	1.5	100	01/02/2016 21:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	118	70-130		01/02/2016 21:24

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-20'	1512A13-026A	Soil	12/29/2015 14:15	GC7	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	510	50	50	01/05/2016 03:18
MTBE	---	2.5	50	01/05/2016 03:18
Benzene	---	0.25	50	01/05/2016 03:18
Toluene	---	0.25	50	01/05/2016 03:18
Ethylbenzene	---	0.25	50	01/05/2016 03:18
Xylenes	---	0.75	50	01/05/2016 03:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorotoluene	204	S	70-130	01/05/2016 03:18

Analyst(s): IA

Analytical Comments: d7,d9,c4

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 12/31/15 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	150	100	100	01/02/2016 20:54
MTBE	---	5.0	100	01/02/2016 20:54
Benzene	---	0.50	100	01/02/2016 20:54
Toluene	---	0.50	100	01/02/2016 20:54
Ethylbenzene	---	0.50	100	01/02/2016 20:54
Xylenes	---	1.5	100	01/02/2016 20:54

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	87	70-130	01/02/2016 20:54

Analyst(s): IA **Analytical Comments:** d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-74-10'	1512A13-030A	Soil	12/30/2015 14:10	GC19	114860

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 00:53
MTBE	---	0.050	1	01/03/2016 00:53
Benzene	---	0.0050	1	01/03/2016 00:53
Toluene	---	0.0050	1	01/03/2016 00:53
Ethylbenzene	---	0.0050	1	01/03/2016 00:53
Xylenes	---	0.015	1	01/03/2016 00:53

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	113	70-130	01/03/2016 00:53

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-74-15'	1512A13-031A	Soil	12/30/2015 14:15	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 02:53
MTBE	---	0.050	1	01/03/2016 02:53
Benzene	---	0.0050	1	01/03/2016 02:53
Toluene	---	0.0050	1	01/03/2016 02:53
Ethylbenzene	---	0.0050	1	01/03/2016 02:53
Xylenes	---	0.015	1	01/03/2016 02:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/03/2016 02:53

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-75-10'	1512A13-033A	Soil	12/30/2015 12:50	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 01:53
MTBE	---	0.050	1	01/03/2016 01:53
Benzene	---	0.0050	1	01/03/2016 01:53
Toluene	---	0.0050	1	01/03/2016 01:53
Ethylbenzene	---	0.0050	1	01/03/2016 01:53
Xylenes	---	0.015	1	01/03/2016 01:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		01/03/2016 01:53

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-85-16'	1512A13-036A	Soil	12/30/2015 08:10	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/02/2016 16:54
MTBE	---	0.050	1	01/02/2016 16:54
Benzene	---	0.0050	1	01/02/2016 16:54
Toluene	---	0.0050	1	01/02/2016 16:54
Ethylbenzene	---	0.0050	1	01/02/2016 16:54
Xylenes	---	0.015	1	01/02/2016 16:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		01/02/2016 16:54

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-86-15'	1512A13-039A	Soil	12/30/2015 09:00	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/02/2016 14:54
MTBE	---	0.050	1	01/02/2016 14:54
Benzene	---	0.0050	1	01/02/2016 14:54
Toluene	---	0.0050	1	01/02/2016 14:54
Ethylbenzene	---	0.0050	1	01/02/2016 14:54
Xylenes	---	0.015	1	01/02/2016 14:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		01/02/2016 14:54

Analyst(s): IA



Analytical Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Received:	12/31/15 8:34	Extraction Method:	SW5030B
Date Prepared:	12/31/15	Analytical Method:	SW8021B/8015Bm
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Unit:	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-87-10'	1512A13-041A	Soil	12/30/2015 09:40	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 02:23
MTBE	---	0.050	1	01/03/2016 02:23
Benzene	---	0.0050	1	01/03/2016 02:23
Toluene	---	0.0050	1	01/03/2016 02:23
Ethylbenzene	---	0.0050	1	01/03/2016 02:23
Xylenes	---	0.015	1	01/03/2016 02:23

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	113	70-130	01/03/2016 02:23

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-87-20'	1512A13-042A	Soil	12/30/2015 09:50	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/03/2016 04:22
MTBE	---	0.050	1	01/03/2016 04:22
Benzene	---	0.0050	1	01/03/2016 04:22
Toluene	---	0.0050	1	01/03/2016 04:22
Ethylbenzene	---	0.0050	1	01/03/2016 04:22
Xylenes	---	0.015	1	01/03/2016 04:22

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	124	70-130	01/03/2016 04:22

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-11'	1512A13-043A	Soil	12/30/2015 10:15	GC7	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	5.7	1.0	1	01/05/2016 05:49
MTBE	---	0.050	1	01/05/2016 05:49
Benzene	---	0.0050	1	01/05/2016 05:49
Toluene	---	0.0050	1	01/05/2016 05:49
Ethylbenzene	---	0.0050	1	01/05/2016 05:49
Xylenes	---	0.015	1	01/05/2016 05:49

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	89	70-130	01/05/2016 05:49

Analyst(s): IA Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	45	20	20	01/02/2016 20:24
MTBE	---	1.0	20	01/02/2016 20:24
Benzene	---	0.10	20	01/02/2016 20:24
Toluene	---	0.10	20	01/02/2016 20:24
Ethylbenzene	---	0.10	20	01/02/2016 20:24
Xylenes	---	0.30	20	01/02/2016 20:24

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	98	70-130	01/02/2016 20:24

Analyst(s): IA Analytical Comments: d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 12/31/15	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-20'	1512A13-045A	Soil	12/30/2015 10:25	GC19	114865

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/01/2016 02:52
MTBE	---	0.050	1	01/01/2016 02:52
Benzene	---	0.0050	1	01/01/2016 02:52
Toluene	---	0.0050	1	01/01/2016 02:52
Ethylbenzene	---	0.0050	1	01/01/2016 02:52
Xylenes	---	0.015	1	01/01/2016 02:52

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	117	70-130	01/01/2016 02:52

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 1/4/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-85-GW	1512A13-038A	Water	12/30/2015 10:45	GC3	114908

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	52	50	1	01/04/2016 23:13
MTBE	---	5.0	1	01/04/2016 23:13
Benzene	---	0.50	1	01/04/2016 23:13
Toluene	---	0.50	1	01/04/2016 23:13
Ethylbenzene	---	0.50	1	01/04/2016 23:13
Xylenes	---	1.5	1	01/04/2016 23:13

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	96	70-130	01/04/2016 23:13

Analyst(s): IA **Analytical Comments:** d7,b1



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 12/31/15 **Analytical Method:** SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC6B	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	240	100	100	01/03/2016 00:51
TPH-Motor Oil (C18-C36)	880	500	100	01/03/2016 00:51
Surrogates	REC (%)	Limits		
C9	105	70-130		01/03/2016 00:51
Analyst(s): TK		Analytical Comments: e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-20'	1512A13-003A	Soil	12/28/2015 14:30	GC39B	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	70	1.0	1	01/02/2016 00:15
TPH-Motor Oil (C18-C36)	73	5.0	1	01/02/2016 00:15
Surrogates	REC (%)	Limits		
C9	103	70-130		01/02/2016 00:15
Analyst(s): TK		Analytical Comments: e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-49-10'	1512A13-004A	Soil	12/28/2015 13:45	GC11A	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	460	10	10	01/02/2016 10:24
TPH-Motor Oil (C18-C36)	600	50	10	01/02/2016 10:24
Surrogates	REC (%)	Limits		
C9	105	70-130		01/02/2016 10:24
Analyst(s): TK		Analytical Comments: e7,e11,e2		

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 12/31/15 **Analytical Method:** SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC6B	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	790	20	20	01/02/2016 22:28
TPH-Motor Oil (C18-C36)	1000	100	20	01/02/2016 22:28
Surrogates	REC (%)	Limits		
C9	114	70-130		01/02/2016 22:28
Analyst(s): TK		Analytical Comments: e2,e7,e11		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC11A	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1300	5.0	5	01/02/2016 19:33
TPH-Motor Oil (C18-C36)	1100	25	5	01/02/2016 19:33
Surrogates	REC (%)	Limits		
C9	114	70-130		01/02/2016 19:33
Analyst(s): TK		Analytical Comments: e11,e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-52-15'	1512A13-010A	Soil	12/28/2015 15:30	GC11A	114815

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	100	5.0	5	01/02/2016 13:50
TPH-Motor Oil (C18-C36)	92	25	5	01/02/2016 13:50
Surrogates	REC (%)	Limits		
C9	104	70-130		01/02/2016 13:50
Analyst(s): TK		Analytical Comments: e11,e7,e2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 12/31/15	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-15'	1512A13-013A	Soil	12/29/2015 11:45	GC6B	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	21		1.0	1	01/01/2016 10:46
TPH-Motor Oil (C18-C36)	9.3		5.0	1	01/01/2016 10:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	106		70-130		01/01/2016 10:46
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC6B	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	200		100	100	01/02/2016 12:47
TPH-Motor Oil (C18-C36)	2500		500	100	01/02/2016 12:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	108		70-130		01/02/2016 12:47
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-10'	1512A13-015A	Soil	12/29/2015 12:20	GC6B	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	68		1.0	1	01/01/2016 17:53
TPH-Motor Oil (C18-C36)	88		5.0	1	01/01/2016 17:53
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/01/2016 17:53
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e11		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 12/31/15	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC6B	114863

Analytes	Result	RL	DF	Date Analyzed	
TPH-Diesel (C10-C23)	440	200	200	01/02/2016 18:55	
TPH-Motor Oil (C18-C36)	6500	1000	200	01/02/2016 18:55	
<u>Surrogates</u>		<u>REC (%)</u>		<u>Limits</u>	
C9	114	70-130		01/02/2016 18:55	
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-55-10'	1512A13-018A	Soil	12/29/2015 13:40	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed	
TPH-Diesel (C10-C23)	4.6	1.0	1	01/01/2016 12:33	
TPH-Motor Oil (C18-C36)	15	5.0	1	01/01/2016 12:33	
<u>Surrogates</u>		<u>REC (%)</u>		<u>Limits</u>	
C9	103	70-130		01/01/2016 12:33	
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-55-15'	1512A13-019A	Soil	12/29/2015 13:45	GC6B	114863

Analytes	Result	RL	DF	Date Analyzed	
TPH-Diesel (C10-C23)	120	1.0	1	01/01/2016 14:20	
TPH-Motor Oil (C18-C36)	67	5.0	1	01/01/2016 14:20	
<u>Surrogates</u>		<u>REC (%)</u>		<u>Limits</u>	
C9	105	70-130		01/01/2016 14:20	
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e11,e3			

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 12/31/15	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56-15'	1512A13-022A	Soil	12/29/2015 15:10	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/01/2016 20:21
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/01/2016 20:21
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/01/2016 20:21

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56-20'	1512A13-023A	Soil	12/29/2015 15:15	GC11A	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	170	1.0	1	01/01/2016 20:41
TPH-Motor Oil (C18-C36)	270	5.0	1	01/01/2016 20:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	100	70-130		01/01/2016 20:41

Analyst(s): TK Analytical Comments: e3,e11,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC6B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1800	200	200	01/03/2016 04:24
TPH-Motor Oil (C18-C36)	2400	1000	200	01/03/2016 04:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	111	70-130		01/03/2016 04:24

Analyst(s): TK Analytical Comments: e2,e7,e11

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 12/31/15 **Analytical Method:** SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-20'	1512A13-026A	Soil	12/29/2015 14:15	GC6B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	450	2.0	2	01/01/2016 22:37
TPH-Motor Oil (C18-C36)	470	10	2	01/01/2016 22:37
Surrogates	REC (%)	Limits		
C9	109	70-130		01/01/2016 22:37
Analyst(s): TK		Analytical Comments: e7,e2,e11		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC6B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	3600	200	200	01/02/2016 16:32
TPH-Motor Oil (C18-C36)	6900	1000	200	01/02/2016 16:32
Surrogates	REC (%)	Limits		
C9	110	70-130		01/02/2016 16:32
Analyst(s): TK		Analytical Comments: e7,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-74-10'	1512A13-030A	Soil	12/30/2015 14:10	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	2.3	1.0	1	01/01/2016 15:09
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/01/2016 15:09
Surrogates	REC (%)	Limits		
C9	103	70-130		01/01/2016 15:09
Analyst(s): TK		Analytical Comments: e2		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 12/31/15
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-74-15'	1512A13-031A	Soil	12/30/2015 14:15	GC39B	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/01/2016 21:39
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/01/2016 21:39
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/01/2016 21:39

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-75-10'	1512A13-033A	Soil	12/30/2015 12:50	GC39B	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/01/2016 22:57
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/01/2016 22:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/01/2016 22:57

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-85-16'	1512A13-036A	Soil	12/30/2015 08:10	GC11A	114863
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/01/2016 22:58
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/01/2016 22:58
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	100		70-130		01/01/2016 22:58

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 12/31/15 **Analytical Method:** SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-86-15'	1512A13-039A	Soil	12/30/2015 09:00	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/01/2016 19:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/01/2016 19:03
Surrogates	REC (%)	Limits		
C9	103	70-130		01/01/2016 19:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-87-10'	1512A13-041A	Soil	12/30/2015 09:40	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/01/2016 13:51
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/01/2016 13:51
Surrogates	REC (%)	Limits		
C9	103	70-130		01/01/2016 13:51

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-87-20'	1512A13-042A	Soil	12/30/2015 09:50	GC39B	114863

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	12/31/2015 20:57
TPH-Motor Oil (C18-C36)	ND	5.0	1	12/31/2015 20:57
Surrogates	REC (%)	Limits		
C9	103	70-130		12/31/2015 20:57

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 12/31/15	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-11'	1512A13-043A	Soil	12/30/2015 10:15	GC6A	114864
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	190		50	50	01/04/2016 12:44
TPH-Motor Oil (C18-C36)	330		250	50	01/04/2016 12:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	108		70-130		01/04/2016 12:44
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC6B	114864
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1200		100	100	01/02/2016 21:17
TPH-Motor Oil (C18-C36)	2800		500	100	01/02/2016 21:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	114		70-130		01/02/2016 21:17
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-20'	1512A13-045A	Soil	12/30/2015 10:25	GC39B	114864
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	10		1.0	1	12/31/2015 22:54
TPH-Motor Oil (C18-C36)	13		5.0	1	12/31/2015 22:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		12/31/2015 22:54
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3510C
Date Prepared: 1/4/16 **Analytical Method:** SW8015B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-85-GW	1512A13-038A	Water	12/30/2015 10:45	GC11B	114939

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	130	50	1	01/05/2016 18:25
TPH-Motor Oil (C18-C36)	ND	250	1	01/05/2016 18:25

Surrogates	REC (%)	Limits	
C9	106	70-130	01/05/2016 18:25

Analyst(s): TK

Analytical Comments: e8,e2,b1



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 12/31/15	BatchID: 114860
Date Analyzed: 12/31/15	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-114860 1512C06-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.590	0.40	0.60	-	98	70-130
MTBE	ND	0.0867	0.050	0.10	-	87	70-130
Benzene	ND	0.107	0.0050	0.10	-	107	70-130
Toluene	ND	0.108	0.0050	0.10	-	109	70-130
Ethylbenzene	ND	0.115	0.0050	0.10	-	115	70-130
Xylenes	ND	0.359	0.015	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.122	0.128		0.10	122	128	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	ND	ND	0.60	ND	62,F1	62,F1	70-130	0	20
MTBE	ND	ND	0.10	ND	49,F1	50,F1	70-130	1.14	20
Benzene	0.0619	0.0600	0.10	ND	62,F1	60,F1	70-130	3.15	20
Toluene	0.0641	0.0621	0.10	ND	64,F1	62,F1	70-130	3.17	20
Ethylbenzene	0.0729	0.0678	0.10	ND	69,F1	63,F1	70-130	7.35	20
Xylenes	0.215	0.209	0.30	ND	70	69,F1	70-130	2.79	20
Surrogate Recovery									
2-Fluorotoluene	0.0745	0.0728	0.10		74	73	70-130	2.26	20



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 12/31/15	BatchID: 114865
Date Analyzed: 1/2/16	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-114865 1512A13-045AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.587	0.40	0.60	-	98	70-130
MTBE	ND	0.0787	0.050	0.10	-	79	70-130
Benzene	ND	0.109	0.0050	0.10	-	109	70-130
Toluene	ND	0.110	0.0050	0.10	-	110	70-130
Ethylbenzene	ND	0.114	0.0050	0.10	-	114	70-130
Xylenes	ND	0.362	0.015	0.30	-	121	70-130

Surrogate Recovery

2-Fluorotoluene	0.128	0.108		0.10	128	108	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.521	0.544	0.60	ND	87	91	70-130	4.40	20
MTBE	0.0670	0.0682	0.10	ND	67,F1	68,F1	70-130	1.84	20
Benzene	0.0883	0.0887	0.10	ND	88	89	70-130	0.420	20
Toluene	0.0919	0.0941	0.10	ND	92	94	70-130	2.36	20
Ethylbenzene	0.0976	0.101	0.10	ND	98	101	70-130	3.39	20
Xylenes	0.312	0.322	0.30	ND	104	107	70-130	2.92	20

Surrogate Recovery

2-Fluorotoluene	0.111	0.112	0.10		111	111	70-130	0	20
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Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 12/31/15	BatchID: 114908
Date Analyzed: 12/31/15	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-114908 1512C11-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	56.1	40	60	-	94	70-130
MTBE	ND	9.51	5.0	10	-	95	70-130
Benzene	ND	9.82	0.50	10	-	98	70-130
Toluene	ND	9.96	0.50	10	-	100	70-130
Ethylbenzene	ND	10.2	0.50	10	-	102	70-130
Xylenes	ND	30.8	1.5	30	-	103	70-130
Surrogate Recovery							
aaa-TFT	9.86	9.45		10	99	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		6800	NR	NR	-	NR	
MTBE	NR	NR		ND<170	NR	NR	-	NR	
Benzene	NR	NR		270	NR	NR	-	NR	
Toluene	NR	NR		34	NR	NR	-	NR	
Ethylbenzene	NR	NR		1500	NR	NR	-	NR	
Xylenes	NR	NR		3900	NR	NR	-	NR	
Surrogate Recovery									
aaa-TFT	NR	NR			NR	NR	-	NR	



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	12/30/15	BatchID:	114815
Date Analyzed:	12/30/15 - 12/31/15	Extraction Method:	SW3550B
Instrument:	GC11B	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-114815 1512841-034AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.4	1.0	40	-	98	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.0	25.9		25	104	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	42.8	41.8	40	ND	107	105	70-130	2.28	30
Surrogate Recovery									
C9	26.6	26.6	25		106	106	70-130	0	30

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 12/31/15	BatchID: 114863
Date Analyzed: 12/31/15 - 1/1/16	Extraction Method: SW3550B
Instrument: GC39B	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-114863 1512A13-042AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.5	1.0	40	-	99	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.7	25.6		25	103	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	39.9	39.4	40	ND	100	99	70-130	1.14	30
Surrogate Recovery									
C9	25.7	25.5	25		103	102	70-130	0.891	30

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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	12/31/15	BatchID:	114864
Date Analyzed:	12/31/15 - 1/1/16	Extraction Method:	SW3550B
Instrument:	GC39B	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-114864 1512A13-045AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.9	1.0	40	-	95	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.8	25.8		25	103	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	49.0	50.0	40	9.974	98	100	70-130	2.00	30
Surrogate Recovery									
C9	25.8	25.7	25		103	103	70-130	0	30



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 1/4/16	BatchID: 114939
Date Analyzed: 1/5/16	Extraction Method: SW3510C
Instrument: GC11A, GC39B	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-114939

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1060	50	1000	-	106	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	654	634		625	105	101	65-122



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512A13

ClientCode: CKGS

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owens Brockway, 3600 Alameda Ave,
Oakland

Bill to:

Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 12/30/2015

Date Logged: 12/31/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1512A13-001	B-48-3'	Soil	12/28/2015 14:10	<input type="checkbox"/>	A		A									
1512A13-003	B-48-20'	Soil	12/28/2015 14:30	<input type="checkbox"/>	A		A									
1512A13-004	B-49-10'	Soil	12/28/2015 13:45	<input type="checkbox"/>	A		A									
1512A13-007	B-50-4'	Soil	12/29/2015 7:30	<input type="checkbox"/>	A		A									
1512A13-008	B-50-10'	Soil	12/29/2015 8:05	<input type="checkbox"/>	A		A									
1512A13-010	B-52-15'	Soil	12/28/2015 15:30	<input type="checkbox"/>	A		A									
1512A13-013	B-53-15'	Soil	12/29/2015 11:45	<input type="checkbox"/>	A		A									
1512A13-014	B-53-20'	Soil	12/29/2015 11:50	<input type="checkbox"/>	A		A									
1512A13-015	B-54-10'	Soil	12/29/2015 12:20	<input type="checkbox"/>	A		A									
1512A13-017	B-54-20'	Soil	12/29/2015 12:30	<input type="checkbox"/>	A		A									
1512A13-018	B-55-10'	Soil	12/29/2015 13:40	<input type="checkbox"/>	A		A									
1512A13-019	B-55-15'	Soil	12/29/2015 13:45	<input type="checkbox"/>	A		A									
1512A13-022	B-56-15'	Soil	12/29/2015 15:10	<input type="checkbox"/>	A		A									
1512A13-023	B-56-20'	Soil	12/29/2015 15:15	<input type="checkbox"/>	A		A									
1512A13-024	B-57-10'	Soil	12/29/2015 14:00	<input type="checkbox"/>	A		A									

Test Legend:

1	G-MBTEx_S	2	G-MBTEx_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SampIDs: 001A, 003A, 004A, 007A, 008A, 010A, 013A, 014A, 015A, 017A, 018A, 019A, 022A, 023A, 024A, 026A, 027A, 030A, 031A, 033A, 036A, 038A, 039A, 041A, 042A, 043A, 044A, 045A contain testgroup.

Prepared by: Alexandra Iniguez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512A13

ClientCode: CKGS

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owens Brockway, 3600 Alameda Ave,
Oakland

Bill to:

Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 12/30/2015

Date Logged: 12/31/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1512A13-026	B-57-20'	Soil	12/29/2015 14:15	<input type="checkbox"/>	A		A										
1512A13-027	B-73-10'	Soil	12/30/2015 13:45	<input type="checkbox"/>	A		A										
1512A13-030	B-74-10'	Soil	12/30/2015 14:10	<input type="checkbox"/>	A		A										
1512A13-031	B-74-15'	Soil	12/30/2015 14:15	<input type="checkbox"/>	A		A										
1512A13-033	B-75-10'	Soil	12/30/2015 12:50	<input type="checkbox"/>	A		A										
1512A13-036	B-85-16'	Soil	12/30/2015 8:10	<input type="checkbox"/>	A		A										
1512A13-038	B-85-GW	Water	12/30/2015 10:45	<input type="checkbox"/>		A		A									
1512A13-039	B-86-15'	Soil	12/30/2015 9:00	<input type="checkbox"/>	A		A										
1512A13-041	B-87-10'	Soil	12/30/2015 9:40	<input type="checkbox"/>	A		A										
1512A13-042	B-87-20'	Soil	12/30/2015 9:50	<input type="checkbox"/>	A		A										
1512A13-043	B-88-11'	Soil	12/30/2015 10:15	<input type="checkbox"/>	A		A										
1512A13-044	B-88-15'	Soil	12/30/2015 10:20	<input type="checkbox"/>	A		A										
1512A13-045	B-88-20'	Soil	12/30/2015 10:25	<input type="checkbox"/>	A		A										

Test Legend:

1	G-MBTEx_S	2	G-MBTEx_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SampIDs: 001A, 003A, 004A, 007A, 008A, 010A, 013A, 014A, 015A, 017A, 018A, 019A, 022A, 023A, 024A, 026A, 027A, 030A, 031A, 033A, 036A, 038A, 039A, 041A, 042A, 043A, 044A, 045A contain testgroup.

Prepared by: Alexandra Iniguez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1512A13

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Client Contact: Christina Kennedy

Date Logged: 12/31/2015

Comments:

Contact's Email: ckennedy@geologist.com

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 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512A13-001A	B-48-3'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/28/2015 14:10	5 days		<input type="checkbox"/>	
1512A13-002A	B-48-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/28/2015 14:20			<input checked="" type="checkbox"/>	
1512A13-003A	B-48-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/28/2015 14:30	5 days		<input type="checkbox"/>	
1512A13-004A	B-49-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/28/2015 13:45	5 days		<input type="checkbox"/>	
1512A13-005A	B-49-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/28/2015 13:55			<input checked="" type="checkbox"/>	
1512A13-006A	B-49-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/28/2015 14:00			<input checked="" type="checkbox"/>	
1512A13-007A	B-50-4'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 7:30	5 days		<input type="checkbox"/>	
1512A13-008A	B-50-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 8:05	5 days		<input type="checkbox"/>	
1512A13-009A	B-52-3'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/28/2015 13:30			<input checked="" type="checkbox"/>	
1512A13-010A	B-52-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/28/2015 15:30	5 days		<input type="checkbox"/>	
1512A13-011A	B-52-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/28/2015 15:40			<input checked="" type="checkbox"/>	
1512A13-012A	B-53-10'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/29/2015 11:40			<input checked="" type="checkbox"/>	
1512A13-013A	B-53-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 11:45	5 days		<input type="checkbox"/>	
1512A13-014A	B-53-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 11:50	5 days		<input type="checkbox"/>	
1512A13-015A	B-54-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 12:20	5 days		<input type="checkbox"/>	
1512A13-016A	B-54-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/29/2015 12:25			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1512A13

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Client Contact: Christina Kennedy

Date Logged: 12/31/2015

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax
 WriteOn
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 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512A13-017A	B-54-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 12:30	5 days		<input type="checkbox"/>	
1512A13-018A	B-55-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 13:40	5 days		<input type="checkbox"/>	
1512A13-019A	B-55-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 13:45	5 days		<input type="checkbox"/>	
1512A13-020A	B-55-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/29/2015 13:50			<input checked="" type="checkbox"/>	
1512A13-021A	B-56-10'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/29/2015 15:05			<input checked="" type="checkbox"/>	
1512A13-022A	B-56-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 15:10	5 days		<input type="checkbox"/>	
1512A13-023A	B-56-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 15:15	5 days		<input type="checkbox"/>	
1512A13-024A	B-57-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 14:00	5 days		<input type="checkbox"/>	
1512A13-025A	B-57-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/29/2015 14:10			<input checked="" type="checkbox"/>	
1512A13-026A	B-57-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/29/2015 14:15	5 days		<input type="checkbox"/>	
1512A13-027A	B-73-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 13:45	5 days		<input type="checkbox"/>	
1512A13-028A	B-73-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 13:50			<input checked="" type="checkbox"/>	
1512A13-029A	B-73-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 14:00			<input checked="" type="checkbox"/>	
1512A13-030A	B-74-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 14:10	5 days		<input type="checkbox"/>	
1512A13-031A	B-74-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 14:15	5 days		<input type="checkbox"/>	
1512A13-032A	B-74-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 14:20			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1512A13

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Client Contact: Christina Kennedy

Date Logged: 12/31/2015

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512A13-033A	B-75-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 12:50	5 days		<input type="checkbox"/>	
1512A13-034A	B-75-15'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 12:55			<input checked="" type="checkbox"/>	
1512A13-035A	B-75-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 13:00			<input checked="" type="checkbox"/>	
1512A13-036A	B-85-16'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 8:10	5 days		<input type="checkbox"/>	
1512A13-037A	B-85-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 8:15		None	<input checked="" type="checkbox"/>	
1512A13-038A	B-85-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	12/30/2015 10:45	5 days	10%+	<input type="checkbox"/>	
1512A13-039A	B-86-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 9:00	5 days		<input type="checkbox"/>	
1512A13-040A	B-86-20'	Soil		1	8OZ GJ	<input type="checkbox"/>	12/30/2015 9:10			<input checked="" type="checkbox"/>	
1512A13-041A	B-87-10'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 9:40	5 days		<input type="checkbox"/>	
1512A13-042A	B-87-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 9:50	5 days		<input type="checkbox"/>	
1512A13-043A	B-88-11'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 10:15	5 days		<input type="checkbox"/>	
1512A13-044A	B-88-15'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 10:20	5 days		<input type="checkbox"/>	
1512A13-045A	B-88-20'	Soil	Multi-Range TPH(g,d,mo)	1	8OZ GJ	<input type="checkbox"/>	12/30/2015 10:25	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
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McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

1512A13

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
 Effluent Sample Requiring "J" tag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
P.O. Box 246 St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owen's Rac Away
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX											METHOD PRESERVED		BTEX & TPH as Gas (8021/8015) MTBE TPH as Diesel (8015), TPH no (8015) Total Petroleum Oil & Grease (1664/5520 E/B&F) Total Petroleum Hydrocarbons (418.1) EPA 505/608/8081 (CI Pesticides) EPA 608/8082 PCB's; Aroclors / Congeners EPA 507/8141 (NP Pesticides) EPA 515/8151 (Acidic CI Herbicides) EPA 534.2/624/8260 (VOCs) EPA 525.2/625/8270 (SVOCs) EPA 8270 SIM/8310 (PAHs/PNAs) CAM 17 Metals (200.8/6020)** LUFT 5 Metals (200.8/6020)** Metals (200.8/6020)** Lab to Filter sample for Dissolved metals analysis	HOLD					
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other									
B-53-10'	B-53	12/29/15	1140	1				X															X	
B-53-15'	↓		1145																					
B-53-20'	↓		1150																					
B-54-10'	B-54		1220																					X
B-54-15'	↓		1225																					
B-54-20'	↓		1230																					
B-55-10'	B-55		1340																					
B-55-15'	↓		1345																					
B-55-20'	↓		1350																					X
B-56-10'	B-56		1505																					X
B-56-15'	↓		1510																					X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: [Signature] Date: 12/30/15 Time: 1835 Received By: [Signature] ICE/I* _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 COMMENTS: page 2 of 5
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 PRESERVATION _____ VOAS O&G METALS OTHER HAZARDOUS: _____
 pH < _____

1512A13



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
 Effluent Sample Requiring "J" Bag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
P.O. Box 246 St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owen's Rec Bay
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX										METHOD PRESERVED			BTEX & TPH as Gas (8011/8015) MTBE	TPH as Diesel (8015) , TPH _{no} (8015)	Total Petroleum Oil & Grease (1664/5520 E/9&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)**	LUFT 5 Metals (200.8 / 6020)**	Metals (200.8 / 6020)**	Lab to Filter sample for Dissolved metals analysis	HOLD
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																		
B-75-15'	B-75	12/30/15	1255	1					X																				X	X			
B-75-20'	↓		1300	1																									X	X			
B-85-16'	B-85		810	1																									X				
B-85-20'	↓		815	↓																													
B-85-0W	↓		1045	4	X												X																
B-86-15'	B-86		900	1					X																					X			
B-86-20'	↓		910	1																													
B-87-10'	B-87		940	1																													
B-87-20'	↓		950	1																													
B-88-11'	B-88		1015	1																													
B-88-15'	↓	↓	1020	↓																													

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of bite, glove, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>12/30/15</u>	Time: <u>1835</u>	Received By: <u>[Signature]</u>	ICE/IT _____ GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____ VOAS O&G METALS OTHER HAZARDOUS: PRESERVATION _____ pH < 2 _____	COMMENTS: <u>page 4 of 5</u>
Relinquished By:	Date:	Time:	Received By:		
Relinquished By:	Date:	Time:	Received By:		



Sample Receipt Checklist

Client Name:	CKG Environmental	Date and Time Received:	12/30/2015 18:35
Project Name:	Owens Brockway, 3600 Alameda Ave, Oakland	Date Logged:	12/31/2015
WorkOrder №:	1512A13 Matrix: <u>Soil/Water</u>	Received by:	Jena Alfaro
Carrier:	<u>Client Drop-In</u>	Logged by:	Alexandra Iniguez

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample/Temp Blank temperature	Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1512A13 A

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owens Brockway, 3600 Alameda Ave, Oakland

Project Received: 12/31/2015

Analytical Report reviewed & approved for release on 02/22/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave, Oakland
WorkOrder: 1512A13

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave, Oakland
WorkOrder: 1512A13

Analytical Qualifiers

H	samples were analyzed out of holding time
S	spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a3	sample diluted due to high organic content.
b1	aqueous sample that contains greater than ~1 vol. % sediment
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c7	Surrogate value diluted out of range
c11	The surrogate recovery is above the upper control limit. The target analyte(s) were Not Detected (ND); therefore, the data has been reported.
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.
F8	MS/MSD recovery and/or RPD was out of acceptance criteria; PDS validated the prep batch. If PDS recovery was out of acceptance criteria, DLT validated the prep batch.



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/12/16 **Analytical Method:** SW8082
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC5A	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	10	02/18/2016 02:36
Aroclor1221	ND	0.50	10	02/18/2016 02:36
Aroclor1232	ND	0.50	10	02/18/2016 02:36
Aroclor1242	ND	0.50	10	02/18/2016 02:36
Aroclor1248	ND	0.50	10	02/18/2016 02:36
Aroclor1254	ND	0.50	10	02/18/2016 02:36
Aroclor1260	ND	0.50	10	02/18/2016 02:36
PCBs, total	ND	0.50	10	02/18/2016 02:36

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	123	70-130	02/18/2016 02:36

Analyst(s): SS Analytical Comments: a1,h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC5A	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	5.0	100	02/18/2016 03:14
Aroclor1221	ND	5.0	100	02/18/2016 03:14
Aroclor1232	ND	5.0	100	02/18/2016 03:14
Aroclor1242	ND	5.0	100	02/18/2016 03:14
Aroclor1248	ND	5.0	100	02/18/2016 03:14
Aroclor1254	ND	5.0	100	02/18/2016 03:14
Aroclor1260	ND	5.0	100	02/18/2016 03:14
PCBs, total	ND	5.0	100	02/18/2016 03:14

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	183	S	70-130	02/18/2016 03:14

Analyst(s): SS Analytical Comments: a1,h4,c7

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/12/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC5A	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	10	02/18/2016 14:54
Aroclor1221	ND	0.50	10	02/18/2016 14:54
Aroclor1232	ND	0.50	10	02/18/2016 14:54
Aroclor1242	ND	0.50	10	02/18/2016 14:54
Aroclor1248	ND	0.50	10	02/18/2016 14:54
Aroclor1254	ND	0.50	10	02/18/2016 14:54
Aroclor1260	ND	0.50	10	02/18/2016 14:54
PCBs, total	ND	0.50	10	02/18/2016 14:54

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	107	70-130	02/18/2016 14:54

Analyst(s): SS Analytical Comments: a1,h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC22	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 14:49
Aroclor1221	ND	0.050	1	02/17/2016 14:49
Aroclor1232	ND	0.050	1	02/17/2016 14:49
Aroclor1242	ND	0.050	1	02/17/2016 14:49
Aroclor1248	ND	0.050	1	02/17/2016 14:49
Aroclor1254	ND	0.050	1	02/17/2016 14:49
Aroclor1260	ND	0.050	1	02/17/2016 14:49
PCBs, total	ND	0.050	1	02/17/2016 14:49

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	73	70-130	02/17/2016 14:49

Analyst(s): CK

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/12/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC5A	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	10	02/18/2016 15:31
Aroclor1221	ND	0.50	10	02/18/2016 15:31
Aroclor1232	ND	0.50	10	02/18/2016 15:31
Aroclor1242	ND	0.50	10	02/18/2016 15:31
Aroclor1248	ND	0.50	10	02/18/2016 15:31
Aroclor1254	ND	0.50	10	02/18/2016 15:31
Aroclor1260	ND	0.50	10	02/18/2016 15:31
PCBs, total	ND	0.50	10	02/18/2016 15:31

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	102	70-130	02/18/2016 15:31

Analyst(s): SS Analytical Comments: a1,h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC22	116603

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 16:32
Aroclor1221	ND	0.050	1	02/17/2016 16:32
Aroclor1232	ND	0.050	1	02/17/2016 16:32
Aroclor1242	ND	0.050	1	02/17/2016 16:32
Aroclor1248	ND	0.050	1	02/17/2016 16:32
Aroclor1254	ND	0.050	1	02/17/2016 16:32
Aroclor1260	ND	0.050	1	02/17/2016 16:32
PCBs, total	ND	0.050	1	02/17/2016 16:32

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	72	70-130	02/17/2016 16:32

Analyst(s): CK Analytical Comments: h4

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/12/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	1.0	20	02/18/2016 16:09
Aroclor1221	ND	1.0	20	02/18/2016 16:09
Aroclor1232	ND	1.0	20	02/18/2016 16:09
Aroclor1242	ND	1.0	20	02/18/2016 16:09
Aroclor1248	ND	1.0	20	02/18/2016 16:09
Aroclor1254	ND	1.0	20	02/18/2016 16:09
Aroclor1260	ND	1.0	20	02/18/2016 16:09
PCBs, total	ND	1.0	20	02/18/2016 16:09

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	140	S	70-130	02/18/2016 16:09

Analyst(s): SS Analytical Comments: a1,h4,c1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 13:41
Aroclor1221	ND	0.050	1	02/17/2016 13:41
Aroclor1232	ND	0.050	1	02/17/2016 13:41
Aroclor1242	ND	0.050	1	02/17/2016 13:41
Aroclor1248	ND	0.050	1	02/17/2016 13:41
Aroclor1254	ND	0.050	1	02/17/2016 13:41
Aroclor1260	ND	0.050	1	02/17/2016 13:41
PCBs, total	ND	0.050	1	02/17/2016 13:41

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	72	70-130	02/17/2016 13:41

Analyst(s): CK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC16	116619
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/20/2016 04:21
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/20/2016 04:21
Benzene	ND	H	0.0050	1	02/20/2016 04:21
Bromobenzene	ND	H	0.0050	1	02/20/2016 04:21
Bromochloromethane	ND	H	0.0050	1	02/20/2016 04:21
Bromodichloromethane	ND	H	0.0050	1	02/20/2016 04:21
Bromoform	ND	H	0.0050	1	02/20/2016 04:21
Bromomethane	ND	H	0.0050	1	02/20/2016 04:21
2-Butanone (MEK)	ND	H	0.020	1	02/20/2016 04:21
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/20/2016 04:21
n-Butyl benzene	0.0094	H	0.0050	1	02/20/2016 04:21
sec-Butyl benzene	0.013	H	0.0050	1	02/20/2016 04:21
tert-Butyl benzene	ND	H	0.0050	1	02/20/2016 04:21
Carbon Disulfide	ND	H	0.0050	1	02/20/2016 04:21
Carbon Tetrachloride	ND	H	0.0050	1	02/20/2016 04:21
Chlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
Chloroethane	ND	H	0.0050	1	02/20/2016 04:21
Chloroform	ND	H	0.0050	1	02/20/2016 04:21
Chloromethane	ND	H	0.0050	1	02/20/2016 04:21
2-Chlorotoluene	ND	H	0.0050	1	02/20/2016 04:21
4-Chlorotoluene	ND	H	0.0050	1	02/20/2016 04:21
Dibromochloromethane	ND	H	0.0050	1	02/20/2016 04:21
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/20/2016 04:21
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/20/2016 04:21
Dibromomethane	ND	H	0.0050	1	02/20/2016 04:21
1,2-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
1,3-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
1,4-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
Dichlorodifluoromethane	ND	H	0.0050	1	02/20/2016 04:21
1,1-Dichloroethane	ND	H	0.0050	1	02/20/2016 04:21
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/20/2016 04:21
1,1-Dichloroethene	ND	H	0.0050	1	02/20/2016 04:21
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 04:21
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 04:21
1,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 04:21
1,3-Dichloropropane	ND	H	0.0050	1	02/20/2016 04:21
2,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 04:21

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC16	116619
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/20/2016 04:21
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 04:21
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 04:21
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/20/2016 04:21
Ethylbenzene	ND	H	0.0050	1	02/20/2016 04:21
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/20/2016 04:21
Freon 113	ND	H	0.0050	1	02/20/2016 04:21
Hexachlorobutadiene	ND	H	0.0050	1	02/20/2016 04:21
Hexachloroethane	ND	H	0.0050	1	02/20/2016 04:21
2-Hexanone	ND	H	0.0050	1	02/20/2016 04:21
Isopropylbenzene	ND	H	0.0050	1	02/20/2016 04:21
4-Isopropyl toluene	ND	H	0.0050	1	02/20/2016 04:21
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/20/2016 04:21
Methylene chloride	ND	H	0.0050	1	02/20/2016 04:21
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/20/2016 04:21
Naphthalene	ND	H	0.0050	1	02/20/2016 04:21
n-Propyl benzene	ND	H	0.0050	1	02/20/2016 04:21
Styrene	ND	H	0.0050	1	02/20/2016 04:21
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 04:21
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 04:21
Tetrachloroethene	ND	H	0.0050	1	02/20/2016 04:21
Toluene	ND	H	0.0050	1	02/20/2016 04:21
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 04:21
1,1,1-Trichloroethane	ND	H	0.0050	1	02/20/2016 04:21
1,1,2-Trichloroethane	ND	H	0.0050	1	02/20/2016 04:21
Trichloroethene	ND	H	0.0050	1	02/20/2016 04:21
Trichlorofluoromethane	ND	H	0.0050	1	02/20/2016 04:21
1,2,3-Trichloropropane	ND	H	0.0050	1	02/20/2016 04:21
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 04:21
1,3,5-Trimethylbenzene	0.0053	H	0.0050	1	02/20/2016 04:21
Vinyl Chloride	ND	H	0.0050	1	02/20/2016 04:21
Xylenes, Total	ND	H	0.0050	1	02/20/2016 04:21

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC16	116619

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	100	H	70-130		02/20/2016 04:21
Toluene-d8	109	H	70-130		02/20/2016 04:21
4-BFB	91	H	70-130		02/20/2016 04:21
Benzene-d6	100	H	60-140		02/20/2016 04:21
Ethylbenzene-d10	104	H	60-140		02/20/2016 04:21
1,2-DCB-d4	72	H	60-140		02/20/2016 04:21

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC16	116619
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.40	4	02/20/2016 14:18
tert-Amyl methyl ether (TAME)	ND	H	0.020	4	02/20/2016 14:18
Benzene	ND	H	0.020	4	02/20/2016 14:18
Bromobenzene	ND	H	0.020	4	02/20/2016 14:18
Bromochloromethane	ND	H	0.020	4	02/20/2016 14:18
Bromodichloromethane	ND	H	0.020	4	02/20/2016 14:18
Bromoform	ND	H	0.020	4	02/20/2016 14:18
Bromomethane	ND	H	0.020	4	02/20/2016 14:18
2-Butanone (MEK)	ND	H	0.080	4	02/20/2016 14:18
t-Butyl alcohol (TBA)	ND	H	0.20	4	02/20/2016 14:18
n-Butyl benzene	0.044	H	0.020	4	02/20/2016 14:18
sec-Butyl benzene	0.12	H	0.020	4	02/20/2016 14:18
tert-Butyl benzene	ND	H	0.020	4	02/20/2016 14:18
Carbon Disulfide	ND	H	0.020	4	02/20/2016 14:18
Carbon Tetrachloride	ND	H	0.020	4	02/20/2016 14:18
Chlorobenzene	ND	H	0.020	4	02/20/2016 14:18
Chloroethane	ND	H	0.020	4	02/20/2016 14:18
Chloroform	ND	H	0.020	4	02/20/2016 14:18
Chloromethane	ND	H	0.020	4	02/20/2016 14:18
2-Chlorotoluene	ND	H	0.020	4	02/20/2016 14:18
4-Chlorotoluene	ND	H	0.020	4	02/20/2016 14:18
Dibromochloromethane	ND	H	0.020	4	02/20/2016 14:18
1,2-Dibromo-3-chloropropane	ND	H	0.016	4	02/20/2016 14:18
1,2-Dibromoethane (EDB)	ND	H	0.016	4	02/20/2016 14:18
Dibromomethane	ND	H	0.020	4	02/20/2016 14:18
1,2-Dichlorobenzene	ND	H	0.020	4	02/20/2016 14:18
1,3-Dichlorobenzene	ND	H	0.020	4	02/20/2016 14:18
1,4-Dichlorobenzene	ND	H	0.020	4	02/20/2016 14:18
Dichlorodifluoromethane	ND	H	0.020	4	02/20/2016 14:18
1,1-Dichloroethane	ND	H	0.020	4	02/20/2016 14:18
1,2-Dichloroethane (1,2-DCA)	ND	H	0.016	4	02/20/2016 14:18
1,1-Dichloroethene	ND	H	0.020	4	02/20/2016 14:18
cis-1,2-Dichloroethene	ND	H	0.020	4	02/20/2016 14:18
trans-1,2-Dichloroethene	ND	H	0.020	4	02/20/2016 14:18
1,2-Dichloropropane	ND	H	0.020	4	02/20/2016 14:18
1,3-Dichloropropane	ND	H	0.020	4	02/20/2016 14:18
2,2-Dichloropropane	ND	H	0.020	4	02/20/2016 14:18

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC16	116619
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.020	4	02/20/2016 14:18
cis-1,3-Dichloropropene	ND	H	0.020	4	02/20/2016 14:18
trans-1,3-Dichloropropene	ND	H	0.020	4	02/20/2016 14:18
Diisopropyl ether (DIPE)	ND	H	0.020	4	02/20/2016 14:18
Ethylbenzene	ND	H	0.020	4	02/20/2016 14:18
Ethyl tert-butyl ether (ETBE)	ND	H	0.020	4	02/20/2016 14:18
Freon 113	ND	H	0.020	4	02/20/2016 14:18
Hexachlorobutadiene	ND	H	0.020	4	02/20/2016 14:18
Hexachloroethane	ND	H	0.020	4	02/20/2016 14:18
2-Hexanone	ND	H	0.020	4	02/20/2016 14:18
Isopropylbenzene	ND	H	0.020	4	02/20/2016 14:18
4-Isopropyl toluene	0.071	H	0.020	4	02/20/2016 14:18
Methyl-t-butyl ether (MTBE)	ND	H	0.020	4	02/20/2016 14:18
Methylene chloride	ND	H	0.020	4	02/20/2016 14:18
4-Methyl-2-pentanone (MIBK)	ND	H	0.020	4	02/20/2016 14:18
Naphthalene	ND	H	0.020	4	02/20/2016 14:18
n-Propyl benzene	ND	H	0.020	4	02/20/2016 14:18
Styrene	ND	H	0.020	4	02/20/2016 14:18
1,1,1,2-Tetrachloroethane	ND	H	0.020	4	02/20/2016 14:18
1,1,2,2-Tetrachloroethane	ND	H	0.020	4	02/20/2016 14:18
Tetrachloroethene	ND	H	0.020	4	02/20/2016 14:18
Toluene	ND	H	0.020	4	02/20/2016 14:18
1,2,3-Trichlorobenzene	ND	H	0.020	4	02/20/2016 14:18
1,2,4-Trichlorobenzene	ND	H	0.020	4	02/20/2016 14:18
1,1,1-Trichloroethane	ND	H	0.020	4	02/20/2016 14:18
1,1,2-Trichloroethane	ND	H	0.020	4	02/20/2016 14:18
Trichloroethene	ND	H	0.020	4	02/20/2016 14:18
Trichlorofluoromethane	ND	H	0.020	4	02/20/2016 14:18
1,2,3-Trichloropropane	ND	H	0.020	4	02/20/2016 14:18
1,2,4-Trimethylbenzene	ND	H	0.020	4	02/20/2016 14:18
1,3,5-Trimethylbenzene	ND	H	0.020	4	02/20/2016 14:18
Vinyl Chloride	ND	H	0.020	4	02/20/2016 14:18
Xylenes, Total	ND	H	0.020	4	02/20/2016 14:18

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC16	116619

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	101	H	70-130		02/20/2016 14:18
Toluene-d8	105	H	70-130		02/20/2016 14:18
4-BFB	100	H	70-130		02/20/2016 14:18
Benzene-d6	87	H	60-140		02/20/2016 14:18
Ethylbenzene-d10	89	H	60-140		02/20/2016 14:18
1,2-DCB-d4	81	H	60-140		02/20/2016 14:18

Analyst(s): AK



Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC16	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/20/2016 05:40
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/20/2016 05:40
Benzene	ND	H	0.10	20	02/20/2016 05:40
Bromobenzene	ND	H	0.10	20	02/20/2016 05:40
Bromochloromethane	ND	H	0.10	20	02/20/2016 05:40
Bromodichloromethane	ND	H	0.10	20	02/20/2016 05:40
Bromoform	ND	H	0.10	20	02/20/2016 05:40
Bromomethane	ND	H	0.10	20	02/20/2016 05:40
2-Butanone (MEK)	ND	H	0.40	20	02/20/2016 05:40
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/20/2016 05:40
n-Butyl benzene	0.21	H	0.10	20	02/20/2016 05:40
sec-Butyl benzene	0.29	H	0.10	20	02/20/2016 05:40
tert-Butyl benzene	ND	H	0.10	20	02/20/2016 05:40
Carbon Disulfide	ND	H	0.10	20	02/20/2016 05:40
Carbon Tetrachloride	ND	H	0.10	20	02/20/2016 05:40
Chlorobenzene	ND	H	0.10	20	02/20/2016 05:40
Chloroethane	ND	H	0.10	20	02/20/2016 05:40
Chloroform	ND	H	0.10	20	02/20/2016 05:40
Chloromethane	ND	H	0.10	20	02/20/2016 05:40
2-Chlorotoluene	ND	H	0.10	20	02/20/2016 05:40
4-Chlorotoluene	ND	H	0.10	20	02/20/2016 05:40
Dibromochloromethane	ND	H	0.10	20	02/20/2016 05:40
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/20/2016 05:40
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/20/2016 05:40
Dibromomethane	ND	H	0.10	20	02/20/2016 05:40
1,2-Dichlorobenzene	ND	H	0.10	20	02/20/2016 05:40
1,3-Dichlorobenzene	ND	H	0.10	20	02/20/2016 05:40
1,4-Dichlorobenzene	ND	H	0.10	20	02/20/2016 05:40
Dichlorodifluoromethane	ND	H	0.10	20	02/20/2016 05:40
1,1-Dichloroethane	ND	H	0.10	20	02/20/2016 05:40
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/20/2016 05:40
1,1-Dichloroethene	ND	H	0.10	20	02/20/2016 05:40
cis-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 05:40
trans-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 05:40
1,2-Dichloropropane	ND	H	0.10	20	02/20/2016 05:40
1,3-Dichloropropane	ND	H	0.10	20	02/20/2016 05:40
2,2-Dichloropropane	ND	H	0.10	20	02/20/2016 05:40

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Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 2/12/16
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC16	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/20/2016 05:40
cis-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 05:40
trans-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 05:40
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/20/2016 05:40
Ethylbenzene	ND	H	0.10	20	02/20/2016 05:40
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/20/2016 05:40
Freon 113	ND	H	0.10	20	02/20/2016 05:40
Hexachlorobutadiene	ND	H	0.10	20	02/20/2016 05:40
Hexachloroethane	ND	H	0.10	20	02/20/2016 05:40
2-Hexanone	ND	H	0.10	20	02/20/2016 05:40
Isopropylbenzene	ND	H	0.10	20	02/20/2016 05:40
4-Isopropyl toluene	0.23	H	0.10	20	02/20/2016 05:40
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/20/2016 05:40
Methylene chloride	ND	H	0.10	20	02/20/2016 05:40
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/20/2016 05:40
Naphthalene	ND	H	0.10	20	02/20/2016 05:40
n-Propyl benzene	ND	H	0.10	20	02/20/2016 05:40
Styrene	ND	H	0.10	20	02/20/2016 05:40
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 05:40
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 05:40
Tetrachloroethene	ND	H	0.10	20	02/20/2016 05:40
Toluene	ND	H	0.10	20	02/20/2016 05:40
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/20/2016 05:40
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/20/2016 05:40
1,1,1-Trichloroethane	ND	H	0.10	20	02/20/2016 05:40
1,1,2-Trichloroethane	ND	H	0.10	20	02/20/2016 05:40
Trichloroethene	ND	H	0.10	20	02/20/2016 05:40
Trichlorofluoromethane	ND	H	0.10	20	02/20/2016 05:40
1,2,3-Trichloropropane	ND	H	0.10	20	02/20/2016 05:40
1,2,4-Trimethylbenzene	ND	H	0.10	20	02/20/2016 05:40
1,3,5-Trimethylbenzene	ND	H	0.10	20	02/20/2016 05:40
Vinyl Chloride	ND	H	0.10	20	02/20/2016 05:40
Xylenes, Total	ND	H	0.10	20	02/20/2016 05:40

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC16	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	102	H	70-130		02/20/2016 05:40
Toluene-d8	116	H	70-130		02/20/2016 05:40
4-BFB	101	H	70-130		02/20/2016 05:40
Benzene-d6	136	H	60-140		02/20/2016 05:40
Ethylbenzene-d10	162	SH	60-140		02/20/2016 05:40
1,2-DCB-d4	106	H	60-140		02/20/2016 05:40

Analyst(s): AK



Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 2/12/16
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/20/2016 12:20
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/20/2016 12:20
Benzene	ND	H	0.0050	1	02/20/2016 12:20
Bromobenzene	ND	H	0.0050	1	02/20/2016 12:20
Bromochloromethane	ND	H	0.0050	1	02/20/2016 12:20
Bromodichloromethane	ND	H	0.0050	1	02/20/2016 12:20
Bromoform	ND	H	0.0050	1	02/20/2016 12:20
Bromomethane	ND	H	0.0050	1	02/20/2016 12:20
2-Butanone (MEK)	ND	H	0.020	1	02/20/2016 12:20
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/20/2016 12:20
n-Butyl benzene	ND	H	0.0050	1	02/20/2016 12:20
sec-Butyl benzene	ND	H	0.0050	1	02/20/2016 12:20
tert-Butyl benzene	ND	H	0.0050	1	02/20/2016 12:20
Carbon Disulfide	ND	H	0.0050	1	02/20/2016 12:20
Carbon Tetrachloride	ND	H	0.0050	1	02/20/2016 12:20
Chlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
Chloroethane	ND	H	0.0050	1	02/20/2016 12:20
Chloroform	ND	H	0.0050	1	02/20/2016 12:20
Chloromethane	ND	H	0.0050	1	02/20/2016 12:20
2-Chlorotoluene	ND	H	0.0050	1	02/20/2016 12:20
4-Chlorotoluene	ND	H	0.0050	1	02/20/2016 12:20
Dibromochloromethane	ND	H	0.0050	1	02/20/2016 12:20
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/20/2016 12:20
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/20/2016 12:20
Dibromomethane	ND	H	0.0050	1	02/20/2016 12:20
1,2-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
1,3-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
1,4-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
Dichlorodifluoromethane	ND	H	0.0050	1	02/20/2016 12:20
1,1-Dichloroethane	ND	H	0.0050	1	02/20/2016 12:20
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/20/2016 12:20
1,1-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:20
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:20
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:20
1,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:20
1,3-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:20
2,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:20

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McC Campbell Analytical, Inc.

"When Quality Counts"

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20*	1512A13-014A	Soil	12/29/2015 11:50	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:20
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:20
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:20
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/20/2016 12:20
Ethylbenzene	ND	H	0.0050	1	02/20/2016 12:20
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/20/2016 12:20
Freon 113	ND	H	0.0050	1	02/20/2016 12:20
Hexachlorobutadiene	ND	H	0.0050	1	02/20/2016 12:20
Hexachloroethane	ND	H	0.0050	1	02/20/2016 12:20
2-Hexanone	ND	H	0.0050	1	02/20/2016 12:20
Isopropylbenzene	ND	H	0.0050	1	02/20/2016 12:20
4-Isopropyl toluene	ND	H	0.0050	1	02/20/2016 12:20
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/20/2016 12:20
Methylene chloride	ND	H	0.0050	1	02/20/2016 12:20
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/20/2016 12:20
Naphthalene	ND	H	0.0050	1	02/20/2016 12:20
n-Propyl benzene	ND	H	0.0050	1	02/20/2016 12:20
Styrene	ND	H	0.0050	1	02/20/2016 12:20
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 12:20
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 12:20
Tetrachloroethene	ND	H	0.0050	1	02/20/2016 12:20
Toluene	ND	H	0.0050	1	02/20/2016 12:20
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 12:20
1,1,1-Trichloroethane	ND	H	0.0050	1	02/20/2016 12:20
1,1,2-Trichloroethane	ND	H	0.0050	1	02/20/2016 12:20
Trichloroethene	ND	H	0.0050	1	02/20/2016 12:20
Trichlorofluoromethane	ND	H	0.0050	1	02/20/2016 12:20
1,2,3-Trichloropropane	ND	H	0.0050	1	02/20/2016 12:20
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 12:20
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 12:20
Vinyl Chloride	ND	H	0.0050	1	02/20/2016 12:20
Xylenes, Total	ND	H	0.0050	1	02/20/2016 12:20

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CDPH ELAP 1644 ♦ NELAP 4033 ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	113	H	70-130		02/20/2016 12:20
Toluene-d8	101	H	70-130		02/20/2016 12:20
4-BFB	96	H	70-130		02/20/2016 12:20
Benzene-d6	100	H	60-140		02/20/2016 12:20
Ethylbenzene-d10	109	H	60-140		02/20/2016 12:20
1,2-DCB-d4	111	H	60-140		02/20/2016 12:20

Analyst(s): AK



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/20/2016 12:59
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/20/2016 12:59
Benzene	ND	H	0.0050	1	02/20/2016 12:59
Bromobenzene	ND	H	0.0050	1	02/20/2016 12:59
Bromochloromethane	ND	H	0.0050	1	02/20/2016 12:59
Bromodichloromethane	ND	H	0.0050	1	02/20/2016 12:59
Bromoform	ND	H	0.0050	1	02/20/2016 12:59
Bromomethane	ND	H	0.0050	1	02/20/2016 12:59
2-Butanone (MEK)	ND	H	0.020	1	02/20/2016 12:59
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/20/2016 12:59
n-Butyl benzene	0.023	H	0.0050	1	02/20/2016 12:59
sec-Butyl benzene	0.013	H	0.0050	1	02/20/2016 12:59
tert-Butyl benzene	ND	H	0.0050	1	02/20/2016 12:59
Carbon Disulfide	ND	H	0.0050	1	02/20/2016 12:59
Carbon Tetrachloride	ND	H	0.0050	1	02/20/2016 12:59
Chlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
Chloroethane	ND	H	0.0050	1	02/20/2016 12:59
Chloroform	ND	H	0.0050	1	02/20/2016 12:59
Chloromethane	ND	H	0.0050	1	02/20/2016 12:59
2-Chlorotoluene	ND	H	0.0050	1	02/20/2016 12:59
4-Chlorotoluene	ND	H	0.0050	1	02/20/2016 12:59
Dibromochloromethane	ND	H	0.0050	1	02/20/2016 12:59
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/20/2016 12:59
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/20/2016 12:59
Dibromomethane	ND	H	0.0050	1	02/20/2016 12:59
1,2-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
1,3-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
1,4-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
Dichlorodifluoromethane	ND	H	0.0050	1	02/20/2016 12:59
1,1-Dichloroethane	ND	H	0.0050	1	02/20/2016 12:59
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/20/2016 12:59
1,1-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:59
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:59
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 12:59
1,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:59
1,3-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:59
2,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 12:59

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:59
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:59
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 12:59
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/20/2016 12:59
Ethylbenzene	ND	H	0.0050	1	02/20/2016 12:59
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/20/2016 12:59
Freon 113	ND	H	0.0050	1	02/20/2016 12:59
Hexachlorobutadiene	ND	H	0.0050	1	02/20/2016 12:59
Hexachloroethane	ND	H	0.0050	1	02/20/2016 12:59
2-Hexanone	ND	H	0.0050	1	02/20/2016 12:59
Isopropylbenzene	ND	H	0.0050	1	02/20/2016 12:59
4-Isopropyl toluene	0.037	H	0.0050	1	02/20/2016 12:59
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/20/2016 12:59
Methylene chloride	ND	H	0.0050	1	02/20/2016 12:59
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/20/2016 12:59
Naphthalene	ND	H	0.0050	1	02/20/2016 12:59
n-Propyl benzene	ND	H	0.0050	1	02/20/2016 12:59
Styrene	ND	H	0.0050	1	02/20/2016 12:59
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 12:59
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 12:59
Tetrachloroethene	ND	H	0.0050	1	02/20/2016 12:59
Toluene	ND	H	0.0050	1	02/20/2016 12:59
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 12:59
1,1,1-Trichloroethane	ND	H	0.0050	1	02/20/2016 12:59
1,1,2-Trichloroethane	ND	H	0.0050	1	02/20/2016 12:59
Trichloroethene	ND	H	0.0050	1	02/20/2016 12:59
Trichlorofluoromethane	ND	H	0.0050	1	02/20/2016 12:59
1,2,3-Trichloropropane	ND	H	0.0050	1	02/20/2016 12:59
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 12:59
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 12:59
Vinyl Chloride	ND	H	0.0050	1	02/20/2016 12:59
Xylenes, Total	ND	H	0.0050	1	02/20/2016 12:59

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	117	H	70-130		02/20/2016 12:59
Toluene-d8	123	H	70-130		02/20/2016 12:59
4-BFB	58	SH	70-130		02/20/2016 12:59
Benzene-d6	106	H	60-140		02/20/2016 12:59
Ethylbenzene-d10	110	H	60-140		02/20/2016 12:59
1,2-DCB-d4	106	H	60-140		02/20/2016 12:59

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/20/2016 13:38
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/20/2016 13:38
Benzene	ND	H	0.10	20	02/20/2016 13:38
Bromobenzene	ND	H	0.10	20	02/20/2016 13:38
Bromochloromethane	ND	H	0.10	20	02/20/2016 13:38
Bromodichloromethane	ND	H	0.10	20	02/20/2016 13:38
Bromoform	ND	H	0.10	20	02/20/2016 13:38
Bromomethane	ND	H	0.10	20	02/20/2016 13:38
2-Butanone (MEK)	ND	H	0.40	20	02/20/2016 13:38
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/20/2016 13:38
n-Butyl benzene	0.68	H	0.10	20	02/20/2016 13:38
sec-Butyl benzene	0.62	H	0.10	20	02/20/2016 13:38
tert-Butyl benzene	ND	H	0.10	20	02/20/2016 13:38
Carbon Disulfide	ND	H	0.10	20	02/20/2016 13:38
Carbon Tetrachloride	ND	H	0.10	20	02/20/2016 13:38
Chlorobenzene	ND	H	0.10	20	02/20/2016 13:38
Chloroethane	ND	H	0.10	20	02/20/2016 13:38
Chloroform	ND	H	0.10	20	02/20/2016 13:38
Chloromethane	ND	H	0.10	20	02/20/2016 13:38
2-Chlorotoluene	ND	H	0.10	20	02/20/2016 13:38
4-Chlorotoluene	ND	H	0.10	20	02/20/2016 13:38
Dibromochloromethane	ND	H	0.10	20	02/20/2016 13:38
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/20/2016 13:38
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/20/2016 13:38
Dibromomethane	ND	H	0.10	20	02/20/2016 13:38
1,2-Dichlorobenzene	ND	H	0.10	20	02/20/2016 13:38
1,3-Dichlorobenzene	ND	H	0.10	20	02/20/2016 13:38
1,4-Dichlorobenzene	ND	H	0.10	20	02/20/2016 13:38
Dichlorodifluoromethane	ND	H	0.10	20	02/20/2016 13:38
1,1-Dichloroethane	ND	H	0.10	20	02/20/2016 13:38
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/20/2016 13:38
1,1-Dichloroethene	ND	H	0.10	20	02/20/2016 13:38
cis-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 13:38
trans-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 13:38
1,2-Dichloropropane	ND	H	0.10	20	02/20/2016 13:38
1,3-Dichloropropane	ND	H	0.10	20	02/20/2016 13:38
2,2-Dichloropropane	ND	H	0.10	20	02/20/2016 13:38

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/20/2016 13:38
cis-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 13:38
trans-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 13:38
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/20/2016 13:38
Ethylbenzene	ND	H	0.10	20	02/20/2016 13:38
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/20/2016 13:38
Freon 113	ND	H	0.10	20	02/20/2016 13:38
Hexachlorobutadiene	ND	H	0.10	20	02/20/2016 13:38
Hexachloroethane	ND	H	0.10	20	02/20/2016 13:38
2-Hexanone	ND	H	0.10	20	02/20/2016 13:38
Isopropylbenzene	0.45	H	0.10	20	02/20/2016 13:38
4-Isopropyl toluene	0.16	H	0.10	20	02/20/2016 13:38
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/20/2016 13:38
Methylene chloride	ND	H	0.10	20	02/20/2016 13:38
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/20/2016 13:38
Naphthalene	ND	H	0.10	20	02/20/2016 13:38
n-Propyl benzene	0.74	H	0.10	20	02/20/2016 13:38
Styrene	ND	H	0.10	20	02/20/2016 13:38
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 13:38
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 13:38
Tetrachloroethene	ND	H	0.10	20	02/20/2016 13:38
Toluene	ND	H	0.10	20	02/20/2016 13:38
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/20/2016 13:38
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/20/2016 13:38
1,1,1-Trichloroethane	ND	H	0.10	20	02/20/2016 13:38
1,1,2-Trichloroethane	ND	H	0.10	20	02/20/2016 13:38
Trichloroethene	ND	H	0.10	20	02/20/2016 13:38
Trichlorofluoromethane	ND	H	0.10	20	02/20/2016 13:38
1,2,3-Trichloropropane	ND	H	0.10	20	02/20/2016 13:38
1,2,4-Trimethylbenzene	ND	H	0.10	20	02/20/2016 13:38
1,3,5-Trimethylbenzene	ND	H	0.10	20	02/20/2016 13:38
Vinyl Chloride	ND	H	0.10	20	02/20/2016 13:38
Xylenes, Total	ND	H	0.10	20	02/20/2016 13:38

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	117	H	70-130		02/20/2016 13:38
Toluene-d8	96	H	70-130		02/20/2016 13:38
4-BFB	73	H	70-130		02/20/2016 13:38
Benzene-d6	115	H	60-140		02/20/2016 13:38
Ethylbenzene-d10	127	H	60-140		02/20/2016 13:38
1,2-DCB-d4	141	SH	60-140		02/20/2016 13:38

Analyst(s): AK



Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/20/2016 14:16
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/20/2016 14:16
Benzene	ND	H	0.10	20	02/20/2016 14:16
Bromobenzene	ND	H	0.10	20	02/20/2016 14:16
Bromochloromethane	ND	H	0.10	20	02/20/2016 14:16
Bromodichloromethane	ND	H	0.10	20	02/20/2016 14:16
Bromoform	ND	H	0.10	20	02/20/2016 14:16
Bromomethane	ND	H	0.10	20	02/20/2016 14:16
2-Butanone (MEK)	ND	H	0.40	20	02/20/2016 14:16
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/20/2016 14:16
n-Butyl benzene	0.11	H	0.10	20	02/20/2016 14:16
sec-Butyl benzene	ND	H	0.10	20	02/20/2016 14:16
tert-Butyl benzene	ND	H	0.10	20	02/20/2016 14:16
Carbon Disulfide	ND	H	0.10	20	02/20/2016 14:16
Carbon Tetrachloride	ND	H	0.10	20	02/20/2016 14:16
Chlorobenzene	ND	H	0.10	20	02/20/2016 14:16
Chloroethane	ND	H	0.10	20	02/20/2016 14:16
Chloroform	ND	H	0.10	20	02/20/2016 14:16
Chloromethane	ND	H	0.10	20	02/20/2016 14:16
2-Chlorotoluene	ND	H	0.10	20	02/20/2016 14:16
4-Chlorotoluene	ND	H	0.10	20	02/20/2016 14:16
Dibromochloromethane	ND	H	0.10	20	02/20/2016 14:16
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/20/2016 14:16
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/20/2016 14:16
Dibromomethane	ND	H	0.10	20	02/20/2016 14:16
1,2-Dichlorobenzene	ND	H	0.10	20	02/20/2016 14:16
1,3-Dichlorobenzene	ND	H	0.10	20	02/20/2016 14:16
1,4-Dichlorobenzene	ND	H	0.10	20	02/20/2016 14:16
Dichlorodifluoromethane	ND	H	0.10	20	02/20/2016 14:16
1,1-Dichloroethane	ND	H	0.10	20	02/20/2016 14:16
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/20/2016 14:16
1,1-Dichloroethene	ND	H	0.10	20	02/20/2016 14:16
cis-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 14:16
trans-1,2-Dichloroethene	ND	H	0.10	20	02/20/2016 14:16
1,2-Dichloropropane	ND	H	0.10	20	02/20/2016 14:16
1,3-Dichloropropane	ND	H	0.10	20	02/20/2016 14:16
2,2-Dichloropropane	ND	H	0.10	20	02/20/2016 14:16

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/20/2016 14:16
cis-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 14:16
trans-1,3-Dichloropropene	ND	H	0.10	20	02/20/2016 14:16
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/20/2016 14:16
Ethylbenzene	ND	H	0.10	20	02/20/2016 14:16
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/20/2016 14:16
Freon 113	ND	H	0.10	20	02/20/2016 14:16
Hexachlorobutadiene	ND	H	0.10	20	02/20/2016 14:16
Hexachloroethane	ND	H	0.10	20	02/20/2016 14:16
2-Hexanone	ND	H	0.10	20	02/20/2016 14:16
Isopropylbenzene	ND	H	0.10	20	02/20/2016 14:16
4-Isopropyl toluene	ND	H	0.10	20	02/20/2016 14:16
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/20/2016 14:16
Methylene chloride	ND	H	0.10	20	02/20/2016 14:16
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/20/2016 14:16
Naphthalene	ND	H	0.10	20	02/20/2016 14:16
n-Propyl benzene	ND	H	0.10	20	02/20/2016 14:16
Styrene	ND	H	0.10	20	02/20/2016 14:16
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 14:16
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/20/2016 14:16
Tetrachloroethene	ND	H	0.10	20	02/20/2016 14:16
Toluene	ND	H	0.10	20	02/20/2016 14:16
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/20/2016 14:16
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/20/2016 14:16
1,1,1-Trichloroethane	ND	H	0.10	20	02/20/2016 14:16
1,1,2-Trichloroethane	ND	H	0.10	20	02/20/2016 14:16
Trichloroethene	ND	H	0.10	20	02/20/2016 14:16
Trichlorofluoromethane	ND	H	0.10	20	02/20/2016 14:16
1,2,3-Trichloropropane	ND	H	0.10	20	02/20/2016 14:16
1,2,4-Trimethylbenzene	0.77	H	0.10	20	02/20/2016 14:16
1,3,5-Trimethylbenzene	0.22	H	0.10	20	02/20/2016 14:16
Vinyl Chloride	ND	H	0.10	20	02/20/2016 14:16
Xylenes, Total	ND	H	0.10	20	02/20/2016 14:16

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Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 2/12/16
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	118	H	70-130		02/20/2016 14:16
Toluene-d8	100	H	70-130		02/20/2016 14:16
4-BFB	87	H	70-130		02/20/2016 14:16
Benzene-d6	115	H	60-140		02/20/2016 14:16
Ethylbenzene-d10	97	H	60-140		02/20/2016 14:16
1,2-DCB-d4	129	H	60-140		02/20/2016 14:16

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/20/2016 14:55
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/20/2016 14:55
Benzene	ND	H	0.0050	1	02/20/2016 14:55
Bromobenzene	ND	H	0.0050	1	02/20/2016 14:55
Bromochloromethane	ND	H	0.0050	1	02/20/2016 14:55
Bromodichloromethane	ND	H	0.0050	1	02/20/2016 14:55
Bromoform	ND	H	0.0050	1	02/20/2016 14:55
Bromomethane	ND	H	0.0050	1	02/20/2016 14:55
2-Butanone (MEK)	ND	H	0.020	1	02/20/2016 14:55
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/20/2016 14:55
n-Butyl benzene	ND	H	0.0050	1	02/20/2016 14:55
sec-Butyl benzene	ND	H	0.0050	1	02/20/2016 14:55
tert-Butyl benzene	ND	H	0.0050	1	02/20/2016 14:55
Carbon Disulfide	ND	H	0.0050	1	02/20/2016 14:55
Carbon Tetrachloride	ND	H	0.0050	1	02/20/2016 14:55
Chlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
Chloroethane	ND	H	0.0050	1	02/20/2016 14:55
Chloroform	ND	H	0.0050	1	02/20/2016 14:55
Chloromethane	ND	H	0.0050	1	02/20/2016 14:55
2-Chlorotoluene	ND	H	0.0050	1	02/20/2016 14:55
4-Chlorotoluene	ND	H	0.0050	1	02/20/2016 14:55
Dibromochloromethane	ND	H	0.0050	1	02/20/2016 14:55
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/20/2016 14:55
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/20/2016 14:55
Dibromomethane	ND	H	0.0050	1	02/20/2016 14:55
1,2-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
1,3-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
1,4-Dichlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
Dichlorodifluoromethane	ND	H	0.0050	1	02/20/2016 14:55
1,1-Dichloroethane	ND	H	0.0050	1	02/20/2016 14:55
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/20/2016 14:55
1,1-Dichloroethene	ND	H	0.0050	1	02/20/2016 14:55
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 14:55
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/20/2016 14:55
1,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 14:55
1,3-Dichloropropane	ND	H	0.0050	1	02/20/2016 14:55
2,2-Dichloropropane	ND	H	0.0050	1	02/20/2016 14:55

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/20/2016 14:55
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 14:55
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/20/2016 14:55
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/20/2016 14:55
Ethylbenzene	ND	H	0.0050	1	02/20/2016 14:55
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/20/2016 14:55
Freon 113	ND	H	0.0050	1	02/20/2016 14:55
Hexachlorobutadiene	ND	H	0.0050	1	02/20/2016 14:55
Hexachloroethane	ND	H	0.0050	1	02/20/2016 14:55
2-Hexanone	ND	H	0.0050	1	02/20/2016 14:55
Isopropylbenzene	ND	H	0.0050	1	02/20/2016 14:55
4-Isopropyl toluene	ND	H	0.0050	1	02/20/2016 14:55
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/20/2016 14:55
Methylene chloride	ND	H	0.0050	1	02/20/2016 14:55
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/20/2016 14:55
Naphthalene	ND	H	0.0050	1	02/20/2016 14:55
n-Propyl benzene	ND	H	0.0050	1	02/20/2016 14:55
Styrene	ND	H	0.0050	1	02/20/2016 14:55
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 14:55
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/20/2016 14:55
Tetrachloroethene	ND	H	0.0050	1	02/20/2016 14:55
Toluene	ND	H	0.0050	1	02/20/2016 14:55
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/20/2016 14:55
1,1,1-Trichloroethane	ND	H	0.0050	1	02/20/2016 14:55
1,1,2-Trichloroethane	ND	H	0.0050	1	02/20/2016 14:55
Trichloroethene	ND	H	0.0050	1	02/20/2016 14:55
Trichlorofluoromethane	ND	H	0.0050	1	02/20/2016 14:55
1,2,3-Trichloropropane	ND	H	0.0050	1	02/20/2016 14:55
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 14:55
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/20/2016 14:55
Vinyl Chloride	ND	H	0.0050	1	02/20/2016 14:55
Xylenes, Total	ND	H	0.0050	1	02/20/2016 14:55

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	115	H	70-130		02/20/2016 14:55
Toluene-d8	105	H	70-130		02/20/2016 14:55
4-BFB	94	H	70-130		02/20/2016 14:55
Benzene-d6	106	H	60-140		02/20/2016 14:55
Ethylbenzene-d10	98	H	60-140		02/20/2016 14:55
1,2-DCB-d4	103	H	60-140		02/20/2016 14:55

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	1.2	5	02/19/2016 01:12
Acenaphthylene	ND	H	1.2	5	02/19/2016 01:12
Acetochlor	ND	H	1.2	5	02/19/2016 01:12
Anthracene	ND	H	1.2	5	02/19/2016 01:12
Benzidine	ND	H	6.5	5	02/19/2016 01:12
Benzo (a) anthracene	ND	H	1.2	5	02/19/2016 01:12
Benzo (a) pyrene	ND	H	1.2	5	02/19/2016 01:12
Benzo (b) fluoranthene	ND	H	1.2	5	02/19/2016 01:12
Benzo (g,h,i) perylene	ND	H	1.2	5	02/19/2016 01:12
Benzo (k) fluoranthene	ND	H	1.2	5	02/19/2016 01:12
Benzyl Alcohol	ND	H	6.5	5	02/19/2016 01:12
1,1-Biphenyl	ND	H	1.2	5	02/19/2016 01:12
Bis (2-chloroethoxy) Methane	ND	H	1.2	5	02/19/2016 01:12
Bis (2-chloroethyl) Ether	ND	H	1.2	5	02/19/2016 01:12
Bis (2-chloroisopropyl) Ether	ND	H	1.2	5	02/19/2016 01:12
Bis (2-ethylhexyl) Adipate	ND	H	1.2	5	02/19/2016 01:12
Bis (2-ethylhexyl) Phthalate	ND	H	1.2	5	02/19/2016 01:12
4-Bromophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 01:12
Butylbenzyl Phthalate	ND	H	1.2	5	02/19/2016 01:12
4-Chloroaniline	ND	H	2.5	5	02/19/2016 01:12
4-Chloro-3-methylphenol	ND	H	1.2	5	02/19/2016 01:12
2-Chloronaphthalene	ND	H	1.2	5	02/19/2016 01:12
2-Chlorophenol	ND	H	1.2	5	02/19/2016 01:12
4-Chlorophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 01:12
Chrysene	ND	H	1.2	5	02/19/2016 01:12
Dibenzo (a,h) anthracene	ND	H	1.2	5	02/19/2016 01:12
Dibenzofuran	ND	H	1.2	5	02/19/2016 01:12
Di-n-butyl Phthalate	ND	H	1.2	5	02/19/2016 01:12
1,2-Dichlorobenzene	ND	H	1.2	5	02/19/2016 01:12
1,3-Dichlorobenzene	ND	H	1.2	5	02/19/2016 01:12
1,4-Dichlorobenzene	ND	H	1.2	5	02/19/2016 01:12
3,3-Dichlorobenzidine	ND	H	2.5	5	02/19/2016 01:12
2,4-Dichlorophenol	ND	H	1.2	5	02/19/2016 01:12
Diethyl Phthalate	ND	H	1.2	5	02/19/2016 01:12
2,4-Dimethylphenol	ND	H	1.2	5	02/19/2016 01:12
Dimethyl Phthalate	ND	H	1.2	5	02/19/2016 01:12
4,6-Dinitro-2-methylphenol	ND	H	6.5	5	02/19/2016 01:12

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	32	5	02/19/2016 01:12
2,4-Dinitrotoluene	ND	H	1.2	5	02/19/2016 01:12
2,6-Dinitrotoluene	ND	H	1.2	5	02/19/2016 01:12
Di-n-octyl Phthalate	ND	H	2.5	5	02/19/2016 01:12
1,2-Diphenylhydrazine	ND	H	1.2	5	02/19/2016 01:12
Fluoranthene	ND	H	1.2	5	02/19/2016 01:12
Fluorene	ND	H	1.2	5	02/19/2016 01:12
Hexachlorobenzene	ND	H	1.2	5	02/19/2016 01:12
Hexachlorobutadiene	ND	H	1.2	5	02/19/2016 01:12
Hexachlorocyclopentadiene	ND	H	6.5	5	02/19/2016 01:12
Hexachloroethane	ND	H	1.2	5	02/19/2016 01:12
Indeno (1,2,3-cd) pyrene	ND	H	1.2	5	02/19/2016 01:12
Isophorone	ND	H	1.2	5	02/19/2016 01:12
2-Methylnaphthalene	ND	H	1.2	5	02/19/2016 01:12
2-Methylphenol (o-Cresol)	ND	H	1.2	5	02/19/2016 01:12
3 & 4-Methylphenol (m,p-Cresol)	ND	H	1.2	5	02/19/2016 01:12
Naphthalene	ND	H	1.2	5	02/19/2016 01:12
2-Nitroaniline	ND	H	6.5	5	02/19/2016 01:12
3-Nitroaniline	ND	H	6.5	5	02/19/2016 01:12
4-Nitroaniline	ND	H	6.5	5	02/19/2016 01:12
Nitrobenzene	ND	H	1.2	5	02/19/2016 01:12
2-Nitrophenol	ND	H	6.5	5	02/19/2016 01:12
4-Nitrophenol	ND	H	6.5	5	02/19/2016 01:12
N-Nitrosodiphenylamine	ND	H	1.2	5	02/19/2016 01:12
N-Nitrosodi-n-propylamine	ND	H	1.2	5	02/19/2016 01:12
Pentachlorophenol	ND	H	6.5	5	02/19/2016 01:12
Phenanthrene	ND	H	1.2	5	02/19/2016 01:12
Phenol	ND	H	1.2	5	02/19/2016 01:12
Pyrene	ND	H	1.2	5	02/19/2016 01:12
1,2,4-Trichlorobenzene	ND	H	1.2	5	02/19/2016 01:12
2,4,5-Trichlorophenol	ND	H	1.2	5	02/19/2016 01:12
2,4,6-Trichlorophenol	ND	H	1.2	5	02/19/2016 01:12

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	110	H	30-130		02/19/2016 01:12
Phenol-d5	94	H	30-130		02/19/2016 01:12
Nitrobenzene-d5	90	H	30-130		02/19/2016 01:12
2-Fluorobiphenyl	78	H	30-130		02/19/2016 01:12
2,4,6-Tribromophenol	63	H	16-130		02/19/2016 01:12
4-Terphenyl-d14	89	H	30-130		02/19/2016 01:12

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 2/17/16
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	1.2	5	02/19/2016 02:42
Acenaphthylene	ND	H	1.2	5	02/19/2016 02:42
Acetochlor	ND	H	1.2	5	02/19/2016 02:42
Anthracene	ND	H	1.2	5	02/19/2016 02:42
Benzidine	ND	H	6.5	5	02/19/2016 02:42
Benzo (a) anthracene	ND	H	1.2	5	02/19/2016 02:42
Benzo (a) pyrene	ND	H	1.2	5	02/19/2016 02:42
Benzo (b) fluoranthene	ND	H	1.2	5	02/19/2016 02:42
Benzo (g,h,i) perylene	ND	H	1.2	5	02/19/2016 02:42
Benzo (k) fluoranthene	ND	H	1.2	5	02/19/2016 02:42
Benzyl Alcohol	ND	H	6.5	5	02/19/2016 02:42
1,1-Biphenyl	ND	H	1.2	5	02/19/2016 02:42
Bis (2-chloroethoxy) Methane	ND	H	1.2	5	02/19/2016 02:42
Bis (2-chloroethyl) Ether	ND	H	1.2	5	02/19/2016 02:42
Bis (2-chloroisopropyl) Ether	ND	H	1.2	5	02/19/2016 02:42
Bis (2-ethylhexyl) Adipate	ND	H	1.2	5	02/19/2016 02:42
Bis (2-ethylhexyl) Phthalate	ND	H	1.2	5	02/19/2016 02:42
4-Bromophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 02:42
Butylbenzyl Phthalate	ND	H	1.2	5	02/19/2016 02:42
4-Chloroaniline	ND	H	2.5	5	02/19/2016 02:42
4-Chloro-3-methylphenol	ND	H	1.2	5	02/19/2016 02:42
2-Chloronaphthalene	ND	H	1.2	5	02/19/2016 02:42
2-Chlorophenol	ND	H	1.2	5	02/19/2016 02:42
4-Chlorophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 02:42
Chrysene	ND	H	1.2	5	02/19/2016 02:42
Dibenzo (a,h) anthracene	ND	H	1.2	5	02/19/2016 02:42
Dibenzofuran	ND	H	1.2	5	02/19/2016 02:42
Di-n-butyl Phthalate	ND	H	1.2	5	02/19/2016 02:42
1,2-Dichlorobenzene	ND	H	1.2	5	02/19/2016 02:42
1,3-Dichlorobenzene	ND	H	1.2	5	02/19/2016 02:42
1,4-Dichlorobenzene	ND	H	1.2	5	02/19/2016 02:42
3,3-Dichlorobenzidine	ND	H	2.5	5	02/19/2016 02:42
2,4-Dichlorophenol	ND	H	1.2	5	02/19/2016 02:42
Diethyl Phthalate	ND	H	1.2	5	02/19/2016 02:42
2,4-Dimethylphenol	ND	H	1.2	5	02/19/2016 02:42
Dimethyl Phthalate	ND	H	1.2	5	02/19/2016 02:42
4,6-Dinitro-2-methylphenol	ND	H	6.5	5	02/19/2016 02:42

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	32	5	02/19/2016 02:42
2,4-Dinitrotoluene	ND	H	1.2	5	02/19/2016 02:42
2,6-Dinitrotoluene	ND	H	1.2	5	02/19/2016 02:42
Di-n-octyl Phthalate	ND	H	2.5	5	02/19/2016 02:42
1,2-Diphenylhydrazine	ND	H	1.2	5	02/19/2016 02:42
Fluoranthene	ND	H	1.2	5	02/19/2016 02:42
Fluorene	ND	H	1.2	5	02/19/2016 02:42
Hexachlorobenzene	ND	H	1.2	5	02/19/2016 02:42
Hexachlorobutadiene	ND	H	1.2	5	02/19/2016 02:42
Hexachlorocyclopentadiene	ND	H	6.5	5	02/19/2016 02:42
Hexachloroethane	ND	H	1.2	5	02/19/2016 02:42
Indeno (1,2,3-cd) pyrene	ND	H	1.2	5	02/19/2016 02:42
Isophorone	ND	H	1.2	5	02/19/2016 02:42
2-Methylnaphthalene	ND	H	1.2	5	02/19/2016 02:42
2-Methylphenol (o-Cresol)	ND	H	1.2	5	02/19/2016 02:42
3 & 4-Methylphenol (m,p-Cresol)	ND	H	1.2	5	02/19/2016 02:42
Naphthalene	ND	H	1.2	5	02/19/2016 02:42
2-Nitroaniline	ND	H	6.5	5	02/19/2016 02:42
3-Nitroaniline	ND	H	6.5	5	02/19/2016 02:42
4-Nitroaniline	ND	H	6.5	5	02/19/2016 02:42
Nitrobenzene	ND	H	1.2	5	02/19/2016 02:42
2-Nitrophenol	ND	H	6.5	5	02/19/2016 02:42
4-Nitrophenol	ND	H	6.5	5	02/19/2016 02:42
N-Nitrosodiphenylamine	ND	H	1.2	5	02/19/2016 02:42
N-Nitrosodi-n-propylamine	ND	H	1.2	5	02/19/2016 02:42
Pentachlorophenol	ND	H	6.5	5	02/19/2016 02:42
Phenanthrene	ND	H	1.2	5	02/19/2016 02:42
Phenol	ND	H	1.2	5	02/19/2016 02:42
Pyrene	ND	H	1.2	5	02/19/2016 02:42
1,2,4-Trichlorobenzene	ND	H	1.2	5	02/19/2016 02:42
2,4,5-Trichlorophenol	ND	H	1.2	5	02/19/2016 02:42
2,4,6-Trichlorophenol	ND	H	1.2	5	02/19/2016 02:42

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/17/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	GC21	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	113	H	30-130		02/19/2016 02:42
Phenol-d5	107	H	30-130		02/19/2016 02:42
Nitrobenzene-d5	125	H	30-130		02/19/2016 02:42
2-Fluorobiphenyl	112	H	30-130		02/19/2016 02:42
2,4,6-Tribromophenol	65	H	16-130		02/19/2016 02:42
4-Terphenyl-d14	129	H	30-130		02/19/2016 02:42

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	2.5	10	02/19/2016 02:15
Acenaphthylene	ND	H	2.5	10	02/19/2016 02:15
Acetochlor	ND	H	2.5	10	02/19/2016 02:15
Anthracene	ND	H	2.5	10	02/19/2016 02:15
Benzidine	ND	H	13	10	02/19/2016 02:15
Benzo (a) anthracene	ND	H	2.5	10	02/19/2016 02:15
Benzo (a) pyrene	ND	H	2.5	10	02/19/2016 02:15
Benzo (b) fluoranthene	ND	H	2.5	10	02/19/2016 02:15
Benzo (g,h,i) perylene	ND	H	2.5	10	02/19/2016 02:15
Benzo (k) fluoranthene	ND	H	2.5	10	02/19/2016 02:15
Benzyl Alcohol	ND	H	13	10	02/19/2016 02:15
1,1-Biphenyl	ND	H	2.5	10	02/19/2016 02:15
Bis (2-chloroethoxy) Methane	ND	H	2.5	10	02/19/2016 02:15
Bis (2-chloroethyl) Ether	ND	H	2.5	10	02/19/2016 02:15
Bis (2-chloroisopropyl) Ether	ND	H	2.5	10	02/19/2016 02:15
Bis (2-ethylhexyl) Adipate	ND	H	2.5	10	02/19/2016 02:15
Bis (2-ethylhexyl) Phthalate	ND	H	2.5	10	02/19/2016 02:15
4-Bromophenyl Phenyl Ether	ND	H	2.5	10	02/19/2016 02:15
Butylbenzyl Phthalate	ND	H	2.5	10	02/19/2016 02:15
4-Chloroaniline	ND	H	5.0	10	02/19/2016 02:15
4-Chloro-3-methylphenol	ND	H	2.5	10	02/19/2016 02:15
2-Chloronaphthalene	ND	H	2.5	10	02/19/2016 02:15
2-Chlorophenol	ND	H	2.5	10	02/19/2016 02:15
4-Chlorophenyl Phenyl Ether	ND	H	2.5	10	02/19/2016 02:15
Chrysene	ND	H	2.5	10	02/19/2016 02:15
Dibenzo (a,h) anthracene	ND	H	2.5	10	02/19/2016 02:15
Dibenzofuran	ND	H	2.5	10	02/19/2016 02:15
Di-n-butyl Phthalate	ND	H	2.5	10	02/19/2016 02:15
1,2-Dichlorobenzene	ND	H	2.5	10	02/19/2016 02:15
1,3-Dichlorobenzene	ND	H	2.5	10	02/19/2016 02:15
1,4-Dichlorobenzene	ND	H	2.5	10	02/19/2016 02:15
3,3-Dichlorobenzidine	ND	H	5.0	10	02/19/2016 02:15
2,4-Dichlorophenol	ND	H	2.5	10	02/19/2016 02:15
Diethyl Phthalate	ND	H	2.5	10	02/19/2016 02:15
2,4-Dimethylphenol	ND	H	2.5	10	02/19/2016 02:15
Dimethyl Phthalate	ND	H	2.5	10	02/19/2016 02:15
4,6-Dinitro-2-methylphenol	ND	H	13	10	02/19/2016 02:15

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	63	10	02/19/2016 02:15
2,4-Dinitrotoluene	ND	H	2.5	10	02/19/2016 02:15
2,6-Dinitrotoluene	ND	H	2.5	10	02/19/2016 02:15
Di-n-octyl Phthalate	ND	H	5.0	10	02/19/2016 02:15
1,2-Diphenylhydrazine	ND	H	2.5	10	02/19/2016 02:15
Fluoranthene	ND	H	2.5	10	02/19/2016 02:15
Fluorene	ND	H	2.5	10	02/19/2016 02:15
Hexachlorobenzene	ND	H	2.5	10	02/19/2016 02:15
Hexachlorobutadiene	ND	H	2.5	10	02/19/2016 02:15
Hexachlorocyclopentadiene	ND	H	13	10	02/19/2016 02:15
Hexachloroethane	ND	H	2.5	10	02/19/2016 02:15
Indeno (1,2,3-cd) pyrene	ND	H	2.5	10	02/19/2016 02:15
Isophorone	ND	H	2.5	10	02/19/2016 02:15
2-Methylnaphthalene	ND	H	2.5	10	02/19/2016 02:15
2-Methylphenol (o-Cresol)	ND	H	2.5	10	02/19/2016 02:15
3 & 4-Methylphenol (m,p-Cresol)	ND	H	2.5	10	02/19/2016 02:15
Naphthalene	ND	H	2.5	10	02/19/2016 02:15
2-Nitroaniline	ND	H	13	10	02/19/2016 02:15
3-Nitroaniline	ND	H	13	10	02/19/2016 02:15
4-Nitroaniline	ND	H	13	10	02/19/2016 02:15
Nitrobenzene	ND	H	2.5	10	02/19/2016 02:15
2-Nitrophenol	ND	H	13	10	02/19/2016 02:15
4-Nitrophenol	ND	H	13	10	02/19/2016 02:15
N-Nitrosodiphenylamine	ND	H	2.5	10	02/19/2016 02:15
N-Nitrosodi-n-propylamine	ND	H	2.5	10	02/19/2016 02:15
Pentachlorophenol	ND	H	13	10	02/19/2016 02:15
Phenanthrene	ND	H	2.5	10	02/19/2016 02:15
Phenol	ND	H	2.5	10	02/19/2016 02:15
Pyrene	ND	H	2.5	10	02/19/2016 02:15
1,2,4-Trichlorobenzene	ND	H	2.5	10	02/19/2016 02:15
2,4,5-Trichlorophenol	ND	H	2.5	10	02/19/2016 02:15
2,4,6-Trichlorophenol	ND	H	2.5	10	02/19/2016 02:15

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	GC21	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	105	H	30-130		02/19/2016 02:15
Phenol-d5	100	H	30-130		02/19/2016 02:15
Nitrobenzene-d5	184	SH	30-130		02/19/2016 02:15
2-Fluorobiphenyl	101	H	30-130		02/19/2016 02:15
2,4,6-Tribromophenol	73	H	16-130		02/19/2016 02:15
4-Terphenyl-d14	121	H	30-130		02/19/2016 02:15

Analyst(s): HK

Analytical Comments: a3,c11



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 00:43
Acenaphthylene	ND	H	0.25	1	02/19/2016 00:43
Acetochlor	ND	H	0.25	1	02/19/2016 00:43
Anthracene	ND	H	0.25	1	02/19/2016 00:43
Benzidine	ND	H	1.3	1	02/19/2016 00:43
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 00:43
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 00:43
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 00:43
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 00:43
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 00:43
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 00:43
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 00:43
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 00:43
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 00:43
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 00:43
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 00:43
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 00:43
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 00:43
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 00:43
4-Chloroaniline	ND	H	0.50	1	02/19/2016 00:43
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 00:43
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 00:43
2-Chlorophenol	ND	H	0.25	1	02/19/2016 00:43
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 00:43
Chrysene	ND	H	0.25	1	02/19/2016 00:43
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 00:43
Dibenzofuran	ND	H	0.25	1	02/19/2016 00:43
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 00:43
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 00:43
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 00:43
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 00:43
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 00:43
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 00:43
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 00:43
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 00:43
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 00:43
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 00:43

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/17/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 00:43
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 00:43
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 00:43
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 00:43
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 00:43
Fluoranthene	ND	H	0.25	1	02/19/2016 00:43
Fluorene	ND	H	0.25	1	02/19/2016 00:43
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 00:43
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 00:43
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 00:43
Hexachloroethane	ND	H	0.25	1	02/19/2016 00:43
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 00:43
Isophorone	ND	H	0.25	1	02/19/2016 00:43
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 00:43
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 00:43
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 00:43
Naphthalene	ND	H	0.25	1	02/19/2016 00:43
2-Nitroaniline	ND	H	1.3	1	02/19/2016 00:43
3-Nitroaniline	ND	H	1.3	1	02/19/2016 00:43
4-Nitroaniline	ND	H	1.3	1	02/19/2016 00:43
Nitrobenzene	ND	H	0.25	1	02/19/2016 00:43
2-Nitrophenol	ND	H	1.3	1	02/19/2016 00:43
4-Nitrophenol	ND	H	1.3	1	02/19/2016 00:43
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 00:43
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 00:43
Pentachlorophenol	ND	H	1.3	1	02/19/2016 00:43
Phenanthrene	ND	H	0.25	1	02/19/2016 00:43
Phenol	ND	H	0.25	1	02/19/2016 00:43
Pyrene	ND	H	0.25	1	02/19/2016 00:43
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 00:43
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 00:43
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 00:43

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	90	H	30-130		02/19/2016 00:43
Phenol-d5	76	H	30-130		02/19/2016 00:43
Nitrobenzene-d5	73	H	30-130		02/19/2016 00:43
2-Fluorobiphenyl	69	H	30-130		02/19/2016 00:43
2,4,6-Tribromophenol	41	H	16-130		02/19/2016 00:43
4-Terphenyl-d14	73	H	30-130		02/19/2016 00:43

Analyst(s): HK



Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	1.2	5	02/19/2016 00:15
Acenaphthylene	ND	H	1.2	5	02/19/2016 00:15
Acetochlor	ND	H	1.2	5	02/19/2016 00:15
Anthracene	ND	H	1.2	5	02/19/2016 00:15
Benzidine	ND	H	6.5	5	02/19/2016 00:15
Benzo (a) anthracene	ND	H	1.2	5	02/19/2016 00:15
Benzo (a) pyrene	ND	H	1.2	5	02/19/2016 00:15
Benzo (b) fluoranthene	ND	H	1.2	5	02/19/2016 00:15
Benzo (g,h,i) perylene	ND	H	1.2	5	02/19/2016 00:15
Benzo (k) fluoranthene	ND	H	1.2	5	02/19/2016 00:15
Benzyl Alcohol	ND	H	6.5	5	02/19/2016 00:15
1,1-Biphenyl	ND	H	1.2	5	02/19/2016 00:15
Bis (2-chloroethoxy) Methane	ND	H	1.2	5	02/19/2016 00:15
Bis (2-chloroethyl) Ether	ND	H	1.2	5	02/19/2016 00:15
Bis (2-chloroisopropyl) Ether	ND	H	1.2	5	02/19/2016 00:15
Bis (2-ethylhexyl) Adipate	ND	H	1.2	5	02/19/2016 00:15
Bis (2-ethylhexyl) Phthalate	ND	H	1.2	5	02/19/2016 00:15
4-Bromophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 00:15
Butylbenzyl Phthalate	ND	H	1.2	5	02/19/2016 00:15
4-Chloroaniline	ND	H	2.5	5	02/19/2016 00:15
4-Chloro-3-methylphenol	ND	H	1.2	5	02/19/2016 00:15
2-Chloronaphthalene	ND	H	1.2	5	02/19/2016 00:15
2-Chlorophenol	ND	H	1.2	5	02/19/2016 00:15
4-Chlorophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 00:15
Chrysene	ND	H	1.2	5	02/19/2016 00:15
Dibenzo (a,h) anthracene	ND	H	1.2	5	02/19/2016 00:15
Dibenzofuran	ND	H	1.2	5	02/19/2016 00:15
Di-n-butyl Phthalate	ND	H	1.2	5	02/19/2016 00:15
1,2-Dichlorobenzene	ND	H	1.2	5	02/19/2016 00:15
1,3-Dichlorobenzene	ND	H	1.2	5	02/19/2016 00:15
1,4-Dichlorobenzene	ND	H	1.2	5	02/19/2016 00:15
3,3-Dichlorobenzidine	ND	H	2.5	5	02/19/2016 00:15
2,4-Dichlorophenol	ND	H	1.2	5	02/19/2016 00:15
Diethyl Phthalate	ND	H	1.2	5	02/19/2016 00:15
2,4-Dimethylphenol	ND	H	1.2	5	02/19/2016 00:15
Dimethyl Phthalate	ND	H	1.2	5	02/19/2016 00:15
4,6-Dinitro-2-methylphenol	ND	H	6.5	5	02/19/2016 00:15

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/17/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	32	5	02/19/2016 00:15
2,4-Dinitrotoluene	ND	H	1.2	5	02/19/2016 00:15
2,6-Dinitrotoluene	ND	H	1.2	5	02/19/2016 00:15
Di-n-octyl Phthalate	ND	H	2.5	5	02/19/2016 00:15
1,2-Diphenylhydrazine	ND	H	1.2	5	02/19/2016 00:15
Fluoranthene	ND	H	1.2	5	02/19/2016 00:15
Fluorene	ND	H	1.2	5	02/19/2016 00:15
Hexachlorobenzene	ND	H	1.2	5	02/19/2016 00:15
Hexachlorobutadiene	ND	H	1.2	5	02/19/2016 00:15
Hexachlorocyclopentadiene	ND	H	6.5	5	02/19/2016 00:15
Hexachloroethane	ND	H	1.2	5	02/19/2016 00:15
Indeno (1,2,3-cd) pyrene	ND	H	1.2	5	02/19/2016 00:15
Isophorone	ND	H	1.2	5	02/19/2016 00:15
2-Methylnaphthalene	ND	H	1.2	5	02/19/2016 00:15
2-Methylphenol (o-Cresol)	ND	H	1.2	5	02/19/2016 00:15
3 & 4-Methylphenol (m,p-Cresol)	ND	H	1.2	5	02/19/2016 00:15
Naphthalene	ND	H	1.2	5	02/19/2016 00:15
2-Nitroaniline	ND	H	6.5	5	02/19/2016 00:15
3-Nitroaniline	ND	H	6.5	5	02/19/2016 00:15
4-Nitroaniline	ND	H	6.5	5	02/19/2016 00:15
Nitrobenzene	ND	H	1.2	5	02/19/2016 00:15
2-Nitrophenol	ND	H	6.5	5	02/19/2016 00:15
4-Nitrophenol	ND	H	6.5	5	02/19/2016 00:15
N-Nitrosodiphenylamine	ND	H	1.2	5	02/19/2016 00:15
N-Nitrosodi-n-propylamine	ND	H	1.2	5	02/19/2016 00:15
Pentachlorophenol	ND	H	6.5	5	02/19/2016 00:15
Phenanthrene	ND	H	1.2	5	02/19/2016 00:15
Phenol	ND	H	1.2	5	02/19/2016 00:15
Pyrene	ND	H	1.2	5	02/19/2016 00:15
1,2,4-Trichlorobenzene	ND	H	1.2	5	02/19/2016 00:15
2,4,5-Trichlorophenol	ND	H	1.2	5	02/19/2016 00:15
2,4,6-Trichlorophenol	ND	H	1.2	5	02/19/2016 00:15

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Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/17/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	110	H	30-130		02/19/2016 00:15
Phenol-d5	94	H	30-130		02/19/2016 00:15
Nitrobenzene-d5	98	H	30-130		02/19/2016 00:15
2-Fluorobiphenyl	80	H	30-130		02/19/2016 00:15
2,4,6-Tribromophenol	56	H	16-130		02/19/2016 00:15
4-Terphenyl-d14	83	H	30-130		02/19/2016 00:15

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	5.0	20	02/18/2016 23:46
Acenaphthylene	ND	H	5.0	20	02/18/2016 23:46
Acetochlor	ND	H	5.0	20	02/18/2016 23:46
Anthracene	ND	H	5.0	20	02/18/2016 23:46
Benzidine	ND	H	26	20	02/18/2016 23:46
Benzo (a) anthracene	ND	H	5.0	20	02/18/2016 23:46
Benzo (a) pyrene	ND	H	5.0	20	02/18/2016 23:46
Benzo (b) fluoranthene	ND	H	5.0	20	02/18/2016 23:46
Benzo (g,h,i) perylene	ND	H	5.0	20	02/18/2016 23:46
Benzo (k) fluoranthene	ND	H	5.0	20	02/18/2016 23:46
Benzyl Alcohol	ND	H	26	20	02/18/2016 23:46
1,1-Biphenyl	ND	H	5.0	20	02/18/2016 23:46
Bis (2-chloroethoxy) Methane	ND	H	5.0	20	02/18/2016 23:46
Bis (2-chloroethyl) Ether	ND	H	5.0	20	02/18/2016 23:46
Bis (2-chloroisopropyl) Ether	ND	H	5.0	20	02/18/2016 23:46
Bis (2-ethylhexyl) Adipate	ND	H	5.0	20	02/18/2016 23:46
Bis (2-ethylhexyl) Phthalate	ND	H	5.0	20	02/18/2016 23:46
4-Bromophenyl Phenyl Ether	ND	H	5.0	20	02/18/2016 23:46
Butylbenzyl Phthalate	ND	H	5.0	20	02/18/2016 23:46
4-Chloroaniline	ND	H	10	20	02/18/2016 23:46
4-Chloro-3-methylphenol	ND	H	5.0	20	02/18/2016 23:46
2-Chloronaphthalene	ND	H	5.0	20	02/18/2016 23:46
2-Chlorophenol	ND	H	5.0	20	02/18/2016 23:46
4-Chlorophenyl Phenyl Ether	ND	H	5.0	20	02/18/2016 23:46
Chrysene	ND	H	5.0	20	02/18/2016 23:46
Dibenzo (a,h) anthracene	ND	H	5.0	20	02/18/2016 23:46
Dibenzofuran	ND	H	5.0	20	02/18/2016 23:46
Di-n-butyl Phthalate	ND	H	5.0	20	02/18/2016 23:46
1,2-Dichlorobenzene	ND	H	5.0	20	02/18/2016 23:46
1,3-Dichlorobenzene	ND	H	5.0	20	02/18/2016 23:46
1,4-Dichlorobenzene	ND	H	5.0	20	02/18/2016 23:46
3,3-Dichlorobenzidine	ND	H	10	20	02/18/2016 23:46
2,4-Dichlorophenol	ND	H	5.0	20	02/18/2016 23:46
Diethyl Phthalate	ND	H	5.0	20	02/18/2016 23:46
2,4-Dimethylphenol	ND	H	5.0	20	02/18/2016 23:46
Dimethyl Phthalate	ND	H	5.0	20	02/18/2016 23:46
4,6-Dinitro-2-methylphenol	ND	H	26	20	02/18/2016 23:46

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	130	20	02/18/2016 23:46
2,4-Dinitrotoluene	ND	H	5.0	20	02/18/2016 23:46
2,6-Dinitrotoluene	ND	H	5.0	20	02/18/2016 23:46
Di-n-octyl Phthalate	ND	H	10	20	02/18/2016 23:46
1,2-Diphenylhydrazine	ND	H	5.0	20	02/18/2016 23:46
Fluoranthene	ND	H	5.0	20	02/18/2016 23:46
Fluorene	ND	H	5.0	20	02/18/2016 23:46
Hexachlorobenzene	ND	H	5.0	20	02/18/2016 23:46
Hexachlorobutadiene	ND	H	5.0	20	02/18/2016 23:46
Hexachlorocyclopentadiene	ND	H	26	20	02/18/2016 23:46
Hexachloroethane	ND	H	5.0	20	02/18/2016 23:46
Indeno (1,2,3-cd) pyrene	ND	H	5.0	20	02/18/2016 23:46
Isophorone	ND	H	5.0	20	02/18/2016 23:46
2-Methylnaphthalene	ND	H	5.0	20	02/18/2016 23:46
2-Methylphenol (o-Cresol)	ND	H	5.0	20	02/18/2016 23:46
3 & 4-Methylphenol (m,p-Cresol)	ND	H	5.0	20	02/18/2016 23:46
Naphthalene	ND	H	5.0	20	02/18/2016 23:46
2-Nitroaniline	ND	H	26	20	02/18/2016 23:46
3-Nitroaniline	ND	H	26	20	02/18/2016 23:46
4-Nitroaniline	ND	H	26	20	02/18/2016 23:46
Nitrobenzene	ND	H	5.0	20	02/18/2016 23:46
2-Nitrophenol	ND	H	26	20	02/18/2016 23:46
4-Nitrophenol	ND	H	26	20	02/18/2016 23:46
N-Nitrosodiphenylamine	ND	H	5.0	20	02/18/2016 23:46
N-Nitrosodi-n-propylamine	ND	H	5.0	20	02/18/2016 23:46
Pentachlorophenol	ND	H	26	20	02/18/2016 23:46
Phenanthrene	ND	H	5.0	20	02/18/2016 23:46
Phenol	ND	H	5.0	20	02/18/2016 23:46
Pyrene	ND	H	5.0	20	02/18/2016 23:46
1,2,4-Trichlorobenzene	ND	H	5.0	20	02/18/2016 23:46
2,4,5-Trichlorophenol	ND	H	5.0	20	02/18/2016 23:46
2,4,6-Trichlorophenol	ND	H	5.0	20	02/18/2016 23:46

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	104	H	30-130		02/18/2016 23:46
Phenol-d5	84	H	30-130		02/18/2016 23:46
Nitrobenzene-d5	100	H	30-130		02/18/2016 23:46
2-Fluorobiphenyl	79	H	30-130		02/18/2016 23:46
2,4,6-Tribromophenol	73	H	16-130		02/18/2016 23:46
4-Terphenyl-d14	87	H	30-130		02/18/2016 23:46

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental
Date Received: 12/31/15 8:34
Date Prepared: 2/17/16
Project: Owens Brockway, 3600 Alameda Ave, Oakland

WorkOrder: 1512A13
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	1.2	5	02/18/2016 23:17
Acenaphthylene	ND	H	1.2	5	02/18/2016 23:17
Acetochlor	ND	H	1.2	5	02/18/2016 23:17
Anthracene	ND	H	1.2	5	02/18/2016 23:17
Benzidine	ND	H	6.5	5	02/18/2016 23:17
Benzo (a) anthracene	ND	H	1.2	5	02/18/2016 23:17
Benzo (a) pyrene	ND	H	1.2	5	02/18/2016 23:17
Benzo (b) fluoranthene	ND	H	1.2	5	02/18/2016 23:17
Benzo (g,h,i) perylene	ND	H	1.2	5	02/18/2016 23:17
Benzo (k) fluoranthene	ND	H	1.2	5	02/18/2016 23:17
Benzyl Alcohol	ND	H	6.5	5	02/18/2016 23:17
1,1-Biphenyl	ND	H	1.2	5	02/18/2016 23:17
Bis (2-chloroethoxy) Methane	ND	H	1.2	5	02/18/2016 23:17
Bis (2-chloroethyl) Ether	ND	H	1.2	5	02/18/2016 23:17
Bis (2-chloroisopropyl) Ether	ND	H	1.2	5	02/18/2016 23:17
Bis (2-ethylhexyl) Adipate	ND	H	1.2	5	02/18/2016 23:17
Bis (2-ethylhexyl) Phthalate	ND	H	1.2	5	02/18/2016 23:17
4-Bromophenyl Phenyl Ether	ND	H	1.2	5	02/18/2016 23:17
Butylbenzyl Phthalate	ND	H	1.2	5	02/18/2016 23:17
4-Chloroaniline	ND	H	2.5	5	02/18/2016 23:17
4-Chloro-3-methylphenol	ND	H	1.2	5	02/18/2016 23:17
2-Chloronaphthalene	ND	H	1.2	5	02/18/2016 23:17
2-Chlorophenol	ND	H	1.2	5	02/18/2016 23:17
4-Chlorophenyl Phenyl Ether	ND	H	1.2	5	02/18/2016 23:17
Chrysene	ND	H	1.2	5	02/18/2016 23:17
Dibenzo (a,h) anthracene	ND	H	1.2	5	02/18/2016 23:17
Dibenzofuran	ND	H	1.2	5	02/18/2016 23:17
Di-n-butyl Phthalate	ND	H	1.2	5	02/18/2016 23:17
1,2-Dichlorobenzene	ND	H	1.2	5	02/18/2016 23:17
1,3-Dichlorobenzene	ND	H	1.2	5	02/18/2016 23:17
1,4-Dichlorobenzene	ND	H	1.2	5	02/18/2016 23:17
3,3-Dichlorobenzidine	ND	H	2.5	5	02/18/2016 23:17
2,4-Dichlorophenol	ND	H	1.2	5	02/18/2016 23:17
Diethyl Phthalate	ND	H	1.2	5	02/18/2016 23:17
2,4-Dimethylphenol	ND	H	1.2	5	02/18/2016 23:17
Dimethyl Phthalate	ND	H	1.2	5	02/18/2016 23:17
4,6-Dinitro-2-methylphenol	ND	H	6.5	5	02/18/2016 23:17

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	32	5	02/18/2016 23:17
2,4-Dinitrotoluene	ND	H	1.2	5	02/18/2016 23:17
2,6-Dinitrotoluene	ND	H	1.2	5	02/18/2016 23:17
Di-n-octyl Phthalate	ND	H	2.5	5	02/18/2016 23:17
1,2-Diphenylhydrazine	ND	H	1.2	5	02/18/2016 23:17
Fluoranthene	ND	H	1.2	5	02/18/2016 23:17
Fluorene	ND	H	1.2	5	02/18/2016 23:17
Hexachlorobenzene	ND	H	1.2	5	02/18/2016 23:17
Hexachlorobutadiene	ND	H	1.2	5	02/18/2016 23:17
Hexachlorocyclopentadiene	ND	H	6.5	5	02/18/2016 23:17
Hexachloroethane	ND	H	1.2	5	02/18/2016 23:17
Indeno (1,2,3-cd) pyrene	ND	H	1.2	5	02/18/2016 23:17
Isophorone	ND	H	1.2	5	02/18/2016 23:17
2-Methylnaphthalene	ND	H	1.2	5	02/18/2016 23:17
2-Methylphenol (o-Cresol)	ND	H	1.2	5	02/18/2016 23:17
3 & 4-Methylphenol (m,p-Cresol)	ND	H	1.2	5	02/18/2016 23:17
Naphthalene	ND	H	1.2	5	02/18/2016 23:17
2-Nitroaniline	ND	H	6.5	5	02/18/2016 23:17
3-Nitroaniline	ND	H	6.5	5	02/18/2016 23:17
4-Nitroaniline	ND	H	6.5	5	02/18/2016 23:17
Nitrobenzene	ND	H	1.2	5	02/18/2016 23:17
2-Nitrophenol	ND	H	6.5	5	02/18/2016 23:17
4-Nitrophenol	ND	H	6.5	5	02/18/2016 23:17
N-Nitrosodiphenylamine	ND	H	1.2	5	02/18/2016 23:17
N-Nitrosodi-n-propylamine	ND	H	1.2	5	02/18/2016 23:17
Pentachlorophenol	ND	H	6.5	5	02/18/2016 23:17
Phenanthrene	ND	H	1.2	5	02/18/2016 23:17
Phenol	ND	H	1.2	5	02/18/2016 23:17
Pyrene	ND	H	1.2	5	02/18/2016 23:17
1,2,4-Trichlorobenzene	ND	H	1.2	5	02/18/2016 23:17
2,4,5-Trichlorophenol	ND	H	1.2	5	02/18/2016 23:17
2,4,6-Trichlorophenol	ND	H	1.2	5	02/18/2016 23:17

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	109	H	30-130		02/18/2016 23:17
Phenol-d5	97	H	30-130		02/18/2016 23:17
Nitrobenzene-d5	98	H	30-130		02/18/2016 23:17
2-Fluorobiphenyl	88	H	30-130		02/18/2016 23:17
2,4,6-Tribromophenol	75	H	16-130		02/18/2016 23:17
4-Terphenyl-d14	95	H	30-130		02/18/2016 23:17

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3550B
Date Prepared: 2/17/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/18/2016 22:49
Acenaphthylene	ND	H	0.25	1	02/18/2016 22:49
Acetochlor	ND	H	0.25	1	02/18/2016 22:49
Anthracene	ND	H	0.25	1	02/18/2016 22:49
Benzidine	ND	H	1.3	1	02/18/2016 22:49
Benzo (a) anthracene	ND	H	0.25	1	02/18/2016 22:49
Benzo (a) pyrene	ND	H	0.25	1	02/18/2016 22:49
Benzo (b) fluoranthene	ND	H	0.25	1	02/18/2016 22:49
Benzo (g,h,i) perylene	ND	H	0.25	1	02/18/2016 22:49
Benzo (k) fluoranthene	ND	H	0.25	1	02/18/2016 22:49
Benzyl Alcohol	ND	H	1.3	1	02/18/2016 22:49
1,1-Biphenyl	ND	H	0.25	1	02/18/2016 22:49
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/18/2016 22:49
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/18/2016 22:49
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/18/2016 22:49
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/18/2016 22:49
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/18/2016 22:49
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/18/2016 22:49
Butylbenzyl Phthalate	ND	H	0.25	1	02/18/2016 22:49
4-Chloroaniline	ND	H	0.50	1	02/18/2016 22:49
4-Chloro-3-methylphenol	ND	H	0.25	1	02/18/2016 22:49
2-Chloronaphthalene	ND	H	0.25	1	02/18/2016 22:49
2-Chlorophenol	ND	H	0.25	1	02/18/2016 22:49
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/18/2016 22:49
Chrysene	ND	H	0.25	1	02/18/2016 22:49
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/18/2016 22:49
Dibenzofuran	ND	H	0.25	1	02/18/2016 22:49
Di-n-butyl Phthalate	ND	H	0.25	1	02/18/2016 22:49
1,2-Dichlorobenzene	ND	H	0.25	1	02/18/2016 22:49
1,3-Dichlorobenzene	ND	H	0.25	1	02/18/2016 22:49
1,4-Dichlorobenzene	ND	H	0.25	1	02/18/2016 22:49
3,3-Dichlorobenzidine	ND	H	0.50	1	02/18/2016 22:49
2,4-Dichlorophenol	ND	H	0.25	1	02/18/2016 22:49
Diethyl Phthalate	ND	H	0.25	1	02/18/2016 22:49
2,4-Dimethylphenol	ND	H	0.25	1	02/18/2016 22:49
Dimethyl Phthalate	ND	H	0.25	1	02/18/2016 22:49
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/18/2016 22:49

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3550B
Date Prepared: 2/17/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC17	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/18/2016 22:49
2,4-Dinitrotoluene	ND	H	0.25	1	02/18/2016 22:49
2,6-Dinitrotoluene	ND	H	0.25	1	02/18/2016 22:49
Di-n-octyl Phthalate	ND	H	0.50	1	02/18/2016 22:49
1,2-Diphenylhydrazine	ND	H	0.25	1	02/18/2016 22:49
Fluoranthene	ND	H	0.25	1	02/18/2016 22:49
Fluorene	ND	H	0.25	1	02/18/2016 22:49
Hexachlorobenzene	ND	H	0.25	1	02/18/2016 22:49
Hexachlorobutadiene	ND	H	0.25	1	02/18/2016 22:49
Hexachlorocyclopentadiene	ND	H	1.3	1	02/18/2016 22:49
Hexachloroethane	ND	H	0.25	1	02/18/2016 22:49
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/18/2016 22:49
Isophorone	ND	H	0.25	1	02/18/2016 22:49
2-Methylnaphthalene	ND	H	0.25	1	02/18/2016 22:49
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/18/2016 22:49
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/18/2016 22:49
Naphthalene	ND	H	0.25	1	02/18/2016 22:49
2-Nitroaniline	ND	H	1.3	1	02/18/2016 22:49
3-Nitroaniline	ND	H	1.3	1	02/18/2016 22:49
4-Nitroaniline	ND	H	1.3	1	02/18/2016 22:49
Nitrobenzene	ND	H	0.25	1	02/18/2016 22:49
2-Nitrophenol	ND	H	1.3	1	02/18/2016 22:49
4-Nitrophenol	ND	H	1.3	1	02/18/2016 22:49
N-Nitrosodiphenylamine	ND	H	0.25	1	02/18/2016 22:49
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/18/2016 22:49
Pentachlorophenol	ND	H	1.3	1	02/18/2016 22:49
Phenanthrene	ND	H	0.25	1	02/18/2016 22:49
Phenol	ND	H	0.25	1	02/18/2016 22:49
Pyrene	ND	H	0.25	1	02/18/2016 22:49
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/18/2016 22:49
2,4,5-Trichlorophenol	ND	H	0.25	1	02/18/2016 22:49
2,4,6-Trichlorophenol	ND	H	0.25	1	02/18/2016 22:49

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Analytical Report

Client: CKG Environmental

WorkOrder: 1512A13

Date Received: 12/31/15 8:34

Extraction Method: SW3550B

Date Prepared: 2/17/16

Analytical Method: SW8270C

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	GC17	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	115	H	30-130		02/18/2016 22:49
Phenol-d5	101	H	30-130		02/18/2016 22:49
Nitrobenzene-d5	95	H	30-130		02/18/2016 22:49
2-Fluorobiphenyl	78	H	30-130		02/18/2016 22:49
2,4,6-Tribromophenol	51	H	16-130		02/18/2016 22:49
4-Terphenyl-d14	98	H	30-130		02/18/2016 22:49

Analyst(s): HK



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3050B
Date Prepared: 2/12/16	Analytical Method: SW6020
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-48-3'	1512A13-001A	Soil	12/28/2015 14:10	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 17:38
Chromium	63	0.50	1	02/17/2016 17:38
Lead	9.0	0.50	1	02/17/2016 17:38
Nickel	89	0.50	1	02/17/2016 17:38
Zinc	42	5.0	1	02/17/2016 17:38

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-4'	1512A13-007A	Soil	12/29/2015 07:30	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 17:44
Chromium	68	0.50	1	02/17/2016 17:44
Lead	8.1	0.50	1	02/17/2016 17:44
Nickel	85	0.50	1	02/17/2016 17:44
Zinc	53	5.0	1	02/17/2016 17:44

Surrogates	REC (%)	Limits
Terbium	112	70-130

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-50-10'	1512A13-008A	Soil	12/29/2015 08:05	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 17:51
Chromium	62	0.50	1	02/17/2016 17:51
Lead	5.2	0.50	1	02/17/2016 17:51
Nickel	80	0.50	1	02/17/2016 17:51
Zinc	47	5.0	1	02/17/2016 17:51

Surrogates	REC (%)	Limits
Terbium	115	70-130

Analyst(s): AC

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Received: 12/31/15 8:34	Extraction Method: SW3050B
Date Prepared: 2/12/16	Analytical Method: SW6020
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-53-20'	1512A13-014A	Soil	12/29/2015 11:50	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 17:57
Chromium	52	0.50	1	02/17/2016 17:57
Lead	3.6	0.50	1	02/17/2016 17:57
Nickel	66	0.50	1	02/17/2016 17:57
Zinc	30	5.0	1	02/17/2016 17:57

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-54-20'	1512A13-017A	Soil	12/29/2015 12:30	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 18:03
Chromium	51	0.50	1	02/17/2016 18:03
Lead	3.1	0.50	1	02/17/2016 18:03
Nickel	61	0.50	1	02/17/2016 18:03
Zinc	26	5.0	1	02/17/2016 18:03

Surrogates	REC (%)	Limits
Terbium	102	70-130

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57-10'	1512A13-024A	Soil	12/29/2015 14:00	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 18:09
Chromium	58	0.50	1	02/17/2016 18:09
Lead	5.2	0.50	1	02/17/2016 18:09
Nickel	52	0.50	1	02/17/2016 18:09
Zinc	49	5.0	1	02/17/2016 18:09

Surrogates	REC (%)	Limits
Terbium	109	70-130

Analyst(s): AC

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1512A13
Date Received: 12/31/15 8:34 **Extraction Method:** SW3050B
Date Prepared: 2/12/16 **Analytical Method:** SW6020
Project: Owens Brockway, 3600 Alameda Ave, Oakland **Unit:** mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-73-10'	1512A13-027A	Soil	12/30/2015 13:45	ICP-MS3	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/17/2016 18:15
Chromium	57		0.50	1	02/17/2016 18:15
Lead	6.5		0.50	1	02/17/2016 18:15
Nickel	62		0.50	1	02/17/2016 18:15
Zinc	52		5.0	1	02/17/2016 18:15
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	108		70-130		02/17/2016 18:15
<u>Analyst(s):</u> AC					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-88-15'	1512A13-044A	Soil	12/30/2015 10:20	ICP-MS3	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/17/2016 20:25
Chromium	76		0.50	1	02/17/2016 20:25
Lead	5.9		0.50	1	02/17/2016 20:25
Nickel	150		0.50	1	02/17/2016 20:25
Zinc	68		5.0	1	02/17/2016 20:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	104		70-130		02/17/2016 20:25
<u>Analyst(s):</u> DVH					



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 2/11/16	BatchID: 116603
Date Analyzed: 2/12/16 - 2/16/16	Extraction Method: SW3550B
Instrument: GC23, GC5A	Analytical Method: SW8082
Matrix: Soil	Unit: mg/kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-116603 1602430-003AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.162	0.050	0.15	-	108	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0599	0.0438		0.050	120	88	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.174	0.180	0.15	ND	116	120	70-130	3.29	30

Surrogate Recovery

Decachlorobiphenyl	0.0444	0.0456	0.050		89	91	70-130	2.69	30
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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/12/16	BatchID:	116647
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC5A	Analytical Method:	SW8082
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116647 1601239-091AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.157	0.050	0.15	-	105	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0472	0.0482		0.050	94	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		ND<0.25	NR	NR	-	NR	

Surrogate Recovery

Decachlorobiphenyl	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/11/16	BatchID:	116619
Date Analyzed:	2/12/16	Extraction Method:	SW5030B
Instrument:	GC10, GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116619 1602450-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0442	0.0050	0.050	-	88	53-116
Benzene	ND	0.0500	0.0050	0.050	-	100	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.215	0.050	0.20	-	107	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0468	0.0050	0.050	-	94	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0447	0.0040	0.050	-	89	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0511	0.0040	0.050	-	102	58-135
1,1-Dichloroethene	ND	0.0475	0.0050	0.050	-	95	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/11/16	BatchID:	116619
Date Analyzed:	2/12/16	Extraction Method:	SW5030B
Instrument:	GC10, GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116619 1602450-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0493	0.0050	0.050	-	99	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0484	0.0050	0.050	-	97	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0469	0.0050	0.050	-	94	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0499	0.0050	0.050	-	100	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0481	0.0050	0.050	-	96	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/11/16	BatchID:	116619
Date Analyzed:	2/12/16	Extraction Method:	SW5030B
Instrument:	GC10, GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116619 1602450-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.129	0.129		0.12	104	103	70-130
Toluene-d8	0.158	0.150		0.12	126	120	70-130
4-BFB	0.0115	0.0143		0.012	92	115	70-130
Benzene-d6	0.112	0.123		0.10	112	123	60-140
Ethylbenzene-d10	0.133	0.136		0.10	133	136	60-140
1,2-DCB-d4	0.103	0.0795		0.10	103	79	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0372	0.0381	0.050	ND	74	76	56-94	2.53	20
Benzene	0.0422	0.0422	0.050	ND	84	84	60-106	0	20
t-Butyl alcohol (TBA)	0.181	0.183	0.20	ND	91	92	56-140	1.11	20
Chlorobenzene	0.0402	0.0407	0.050	ND	81	81	61-108	0	20
1,2-Dibromoethane (EDB)	0.0388	0.0389	0.050	ND	78	78	54-119	0	20
1,2-Dichloroethane (1,2-DCA)	0.0432	0.0438	0.050	ND	86	88	48-115	1.34	20
1,1-Dichloroethene	0.0389	0.0389	0.050	ND	78	78	46-111	0	20
Diisopropyl ether (DIPE)	0.0418	0.0422	0.050	ND	84	84	53-111	0	20
Ethyl tert-butyl ether (ETBE)	0.0408	0.0416	0.050	ND	82	83	61-104	1.94	20
Methyl-t-butyl ether (MTBE)	0.0398	0.0410	0.050	ND	80	82	58-107	2.95	20
Toluene	0.0430	0.0431	0.050	ND	86	86	64-114	0	20
Trichloroethene	0.0397	0.0399	0.050	ND	79	80	60-116	0.658	20
Surrogate Recovery									
Dibromofluoromethane	0.124	0.126	0.12		99	100	70-130	1.04	20
Toluene-d8	0.147	0.147	0.12		117	118	70-130	0.409	20
4-BFB	0.0138	0.0135	0.012		110	108	88-121	2.41	20
Benzene-d6	0.0936	0.0956	0.10		94	96	60-140	2.14	20
Ethylbenzene-d10	0.104	0.105	0.10		104	105	60-140	0.956	20
1,2-DCB-d4	0.0678	0.0700	0.10		68	70	60-140	3.16	20

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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/12/16	BatchID:	116646
Date Analyzed:	2/16/16	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116646 1602516-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0491	0.0050	0.050	-	98	53-116
Benzene	ND	0.0514	0.0050	0.050	-	103	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.251	0.050	0.20	-	126	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0473	0.0050	0.050	-	95	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0491	0.0040	0.050	-	98	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0539	0.0040	0.050	-	108	58-135
1,1-Dichloroethene	ND	0.0492	0.0050	0.050	-	98	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/12/16	BatchID:	116646
Date Analyzed:	2/16/16	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116646 1602516-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0519	0.0050	0.050	-	104	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0512	0.0050	0.050	-	102	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0513	0.0050	0.050	-	103	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0502	0.0050	0.050	-	100	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	95	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 2/12/16	BatchID: 116646
Date Analyzed: 2/16/16	Extraction Method: SW5030B
Instrument: GC16	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-116646 1602516-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.125	0.126		0.12	100	101	70-130
Toluene-d8	0.140	0.138		0.12	112	110	70-130
4-BFB	0.0126	0.0153		0.012	101	122	70-130
Benzene-d6	0.113	0.121		0.10	113	121	60-140
Ethylbenzene-d10	0.111	0.134		0.10	111	134	60-140
1,2-DCB-d4	0.0734	0.0855		0.10	73	85	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0566	0.0569	0.050	ND	113,F1	114,F1	56-94	0.534	20
Benzene	0.0554	0.0549	0.050	ND	111,F1	110,F1	60-106	0.916	20
t-Butyl alcohol (TBA)	0.243	0.237	0.20	ND	122	118	56-140	2.64	20
Chlorobenzene	0.0521	0.0520	0.050	ND	104	104	61-108	0	20
1,2-Dibromoethane (EDB)	0.0526	0.0522	0.050	ND	105	104	54-119	0.808	20
1,2-Dichloroethane (1,2-DCA)	0.0527	0.0524	0.050	ND	105	105	48-115	0	20
1,1-Dichloroethene	0.0498	0.0490	0.050	ND	100	98	46-111	1.63	20
Diisopropyl ether (DIPE)	0.0582	0.0577	0.050	ND	116,F1	115,F1	53-111	0.780	20
Ethyl tert-butyl ether (ETBE)	0.0567	0.0564	0.050	ND	113,F1	113,F1	61-104	0	20
Methyl-t-butyl ether (MTBE)	0.0541	0.0539	0.050	ND	108,F1	108,F1	58-107	0	20
Toluene	0.0486	0.0482	0.050	ND	97	96	64-114	0.900	20
Trichloroethene	0.0533	0.0526	0.050	ND	107	105	60-116	1.46	20

Surrogate Recovery									
Dibromofluoromethane	0.143	0.143	0.12		114	114	70-130	0	20
Toluene-d8	0.128	0.129	0.12		102	103	70-130	0.864	20
4-BFB	0.0128	0.0128	0.012		102	103	88-121	0.147	20
Benzene-d6	0.114	0.113	0.10		114	113	60-140	0.787	20
Ethylbenzene-d10	0.108	0.106	0.10		108	106	60-140	1.80	20
1,2-DCB-d4	0.103	0.103	0.10		103	103	60-140	0	20



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/16/16	BatchID:	116758
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.68	0.25	5	-	94	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.94	0.25	5	-	99	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.26	0.25	5	-	105	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.89	0.25	5	-	98	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/16/16	BatchID:	116758
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.76	0.25	5	-	95	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.12	1.3	5	-	82	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.59	0.25	5	-	92	30-130
Pentachlorophenol	ND	5.52	1.3	5	-	110	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	5.25	0.25	5	-	105	30-130
Pyrene	ND	5.34	0.25	5	-	107	30-130
1,2,4-Trichlorobenzene	ND	5.06	0.25	5	-	101	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1512A13
Date Prepared:	2/16/16	BatchID:	116758
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID:	MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	5.91	5.46		5	118	109	30-130
Phenol-d5	5.45	5.05		5	109	101	30-130
Nitrobenzene-d5	4.89	4.79		5	98	96	30-130
2-Fluorobiphenyl	4.20	4.23		5	84	85	30-130
2,4,6-Tribromophenol	4.56	4.56		5	91	91	16-130
4-Terphenyl-d14	4.92	4.78		5	98	96	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<200	NR	NR	-	NR	
4-Chloro-3-methylphenol	NR	NR		ND<200	NR	NR	-	NR	
2-Chlorophenol	NR	NR		ND<200	NR	NR	-	NR	
1,4-Dichlorobenzene	NR	NR		ND<200	NR	NR	-	NR	
2,4-Dinitrotoluene	NR	NR		ND<200	NR	NR	-	NR	
4-Nitrophenol	NR	NR		ND<1000	NR	NR	-	NR	
N-Nitrosodi-n-propylamine	NR	NR		ND<200	NR	NR	-	NR	
Pentachlorophenol	NR	NR		ND<1000	NR	NR	-	NR	
Phenol	NR	NR		ND<200	NR	NR	-	NR	
Pyrene	NR	NR		ND<200	NR	NR	-	NR	
1,2,4-Trichlorobenzene	NR	NR		ND<200	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	
Phenol-d5	NR	NR			NR	NR	-	NR	
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental	WorkOrder: 1512A13
Date Prepared: 2/12/16	BatchID: 116644
Date Analyzed: 2/16/16	Extraction Method: SW3050B
Instrument: ICP-MS1	Analytical Method: SW6020
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave, Oakland	Sample ID: MB/LCS-116644 1602477-002AMS/MSD 1602477-002APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.2	0.25	50	-	100	75-125
Chromium	ND	51.3	0.50	50	-	103	75-125
Lead	ND	53.5	0.50	50	-	107	75-125
Nickel	ND	52.3	0.50	50	-	105	75-125
Zinc	ND	530	5.0	500	-	106	75-125

Surrogate Recovery

Terbium	542	548		500	108	110	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.8	50.7	50	ND	102	101	75-125	0.197	20
Chromium	76.9	79.9	50	ND	154,F8	160,F8	75-125	3.86	20
Lead	55.8	56.7	50	ND	112	113	75-125	1.49	20
Nickel	82.9	83.2	50	ND	166,F8	166,F8	75-125	0	20
Zinc	569	558	500	ND	114	112	75-125	1.81	20

Surrogate Recovery

Terbium	553	542	500		111	108	70-130	2.01	20
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Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	53.7	50	ND	107	80-120
Nickel	56.0	50	ND	112	80-120



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512A13 **A**

ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owens Brockway, 3600 Alameda Ave,
Oakland

Bill to:

Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 12/30/2015

Date Logged: 12/31/2015

Date Add-On: 02/11/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1512A13-001	B-48-3'	Soil	12/28/2015 14:10	<input type="checkbox"/>	A	A	A	A									
1512A13-007	B-50-4'	Soil	12/29/2015 7:30	<input type="checkbox"/>	A	A	A	A									
1512A13-008	B-50-10'	Soil	12/29/2015 8:05	<input type="checkbox"/>	A	A	A	A									
1512A13-014	B-53-20'	Soil	12/29/2015 11:50	<input type="checkbox"/>	A	A	A	A									
1512A13-017	B-54-20'	Soil	12/29/2015 12:30	<input type="checkbox"/>	A	A	A	A									
1512A13-024	B-57-10'	Soil	12/29/2015 14:00	<input type="checkbox"/>	A	A	A	A									
1512A13-027	B-73-10'	Soil	12/30/2015 13:45	<input type="checkbox"/>	A	A	A	A									
1512A13-044	B-88-15'	Soil	12/30/2015 10:20	<input type="checkbox"/>	A	A	A	A									

Test Legend:

1	8082_PCB_S
5	
9	

2	8260B_S
6	
10	

3	8270_S
7	
11	

4	LUFTMS_6020_TTLC_S
8	
12	

Project Manager:

Prepared by: Alexandra Iniguez

Add-On Prepared By: Maria Venegas

Comments: addons 2/11/16

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1512A13

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Client Contact: Christina Kennedy

Date Logged: 12/31/2015

Comments: addons 2/11/16

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512A13-001A	B-48-3'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/28/2015 14:10	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1512A13-007A	B-50-4'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/29/2015 7:30	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1512A13-008A	B-50-10'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/29/2015 8:05	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1512A13-014A	B-53-20'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/29/2015 11:50	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1512A13-017A	B-54-20'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/29/2015 12:30	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1512A13

Project: Owens Brockway, 3600 Alameda Ave, Oakland

Client Contact: Christina Kennedy

Date Logged: 12/31/2015

Comments: addons 2/11/16

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut	
1512A13-017A	B-54-20'	Soil	SW8270C (SVOCs)	1	8OZ GJ	12/29/2015 12:30	5 days		<input type="checkbox"/>		
			SW8260B (VOCs)				5 days				<input type="checkbox"/>
			SW8082 (PCBs Only)				5 days				<input type="checkbox"/>
1512A13-024A	B-57-10'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/29/2015 14:00	5 days		<input type="checkbox"/>		
			SW8270C (SVOCs)				5 days				<input type="checkbox"/>
			SW8260B (VOCs)				5 days				<input type="checkbox"/>
			SW8082 (PCBs Only)				5 days				<input type="checkbox"/>
1512A13-027A	B-73-10'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/30/2015 13:45	5 days		<input type="checkbox"/>		
			SW8270C (SVOCs)				5 days				<input type="checkbox"/>
			SW8260B (VOCs)				5 days				<input type="checkbox"/>
			SW8082 (PCBs Only)				5 days				<input type="checkbox"/>
1512A13-044A	B-88-15'	Soil	SW6020 (LUFT)	1	8OZ GJ	12/30/2015 10:20	5 days		<input type="checkbox"/>		
			SW8270C (SVOCs)				5 days				<input type="checkbox"/>
			SW8260B (VOCs)				5 days				<input type="checkbox"/>
			SW8082 (PCBs Only)				5 days				<input type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mccampbell.com / main@mccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

1512 A13

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
P.O. Box 246 St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owens Brc kway
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: _____

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			Analysis Request													HOLD							
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other	BTEX & TPH as Gas (8021) / (8015) MITBE	TPH as Diesel (8015), TPH no (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's, Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***		Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis					
B-75-15'	B-75	12/30/15	1255	1					X					X	X																					X
B-75-20'	↓		1300	↓																															X	
B-85-16'	B-85		810	↓																															X	
B-85-20'	↓		815	↓																															X	
B-85-GW	↓		1045	4	X																	X														
B-86-15'	B-86		900	1					X																											
B-86-20'	↓		910	↓																																X
B-87-10'	B-87		940	↓																																
B-87-20'	↓		950	↓																																
B-88-11'	B-88		1015	↓																																
B-88-15'	↓	↓	1020	↓										↓	↓							X		X	X		X									

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: _____ Date: 12/30/15 Time: 1835	Received By: _____	COMMENTS: page 4 of 5 ICE/1 GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB VOAS O&G METALS OTHER HAZARDOUS: PRESERVATION pH<2
Relinquished By: _____ Date: _____ Time: _____	Received By: _____	
Relinquished By: _____ Date: _____ Time: _____	Received By: _____	



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601239

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owens Brockway, 3600 Alameda Ave., Oakland

Project Received: 01/08/2016

Analytical Report reviewed & approved for release on 01/27/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave., Oakland
WorkOrder: 1601239

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave., Oakland
WorkOrder: 1601239

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
M	Estimated Maximum Possible Concentration
a1	sample diluted due to matrix interference
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c2	surrogate recovery outside of the control limits due to matrix interference.
c7	Surrogate value diluted out of range
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e3/e2	aged diesel is significant; and/or diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e4/e11	gasoline range compounds are significant.; and/or stoddard solvent/mineral spirit (?)
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e8/e11	kerosene/kerosene range/jet fuel range; and/or stoddard solvent/mineral spirit (?)
e11	stoddard solvent/mineral spirit (?)
e11/e4	stoddard solvent/mineral spirit (?); and/or gasoline range compounds are significant.
h4	sulfuric acid permanganate (EPA 3665) cleanup



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-79-0.5'	1601239-005A	Soil	01/04/2016 10:40	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/19/2016 14:07
1,2,3,7,8-PeCDD		ND	2.50	1				01/19/2016 14:07
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 14:07
1,2,3,6,7,8-HxCDD	0.1	3.74	2.50	1	1.26	1	0.374	01/19/2016 14:07
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 14:07
1,2,3,4,6,7,8-HpCDD	0.01	94.1	2.50	1	1.06	1	0.941	01/19/2016 14:07
OCDD	0.0003	951	5.00	1	0.88	1	0.2853	01/19/2016 14:07
2,3,7,8-TCDF		ND	0.500	1				01/19/2016 14:07
1,2,3,7,8-PeCDF		ND	2.50	1				01/19/2016 14:07
2,3,4,7,8-PeCDF		ND	2.50	1				01/19/2016 14:07
1,2,3,4,7,8-HxCDF	0.1	2.96	2.50	1	1.19	1	0.296	01/19/2016 14:07
1,2,3,6,7,8-HxCDF	0.1	7.18	2.50	1	1.17	1	0.718	01/19/2016 14:07
2,3,4,6,7,8-HxCDF		ND	2.50	1				01/19/2016 14:07
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 14:07
1,2,3,4,6,7,8-HpCDF	0.01	20.7	2.50	1	1.06	1	0.207	01/19/2016 14:07
1,2,3,4,7,8,9-HpCDF	0.01	2.56	2.50	1	0.99	1	0.0256	01/19/2016 14:07
OCDF	0.0003	75.8	5.00	1	0.88	1.01	0.02274	01/19/2016 14:07
Total-Tetradoxins		ND	0.500	1				01/19/2016 14:07
Total-Heptadoxins		159	2.50	1				01/19/2016 14:07
Total-Hexadoxins		13.9	2.50	1				01/19/2016 14:07
Total-Pentadoxins		ND	2.50	1				01/19/2016 14:07
Total-Tetrafurans		ND	0.500	1				01/19/2016 14:07
Total-Heptafurans		99.1	2.50	1				01/19/2016 14:07
Total-Hexafurans		34.4	2.50	1				01/19/2016 14:07
Total-Pentafurans		ND	2.50	1				01/19/2016 14:07

Total TEQ: 2.87

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	71	35-197	01/19/2016 14:07
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	89	25-164	01/19/2016 14:07
13C-1,2,3,7,8-PeCDD	91	25-181	01/19/2016 14:07
13C-1,2,3,4,7,8-HxCDD	96	32-141	01/19/2016 14:07
13C-1,2,3,6,7,8-HxCDD	78	28-130	01/19/2016 14:07
13C-1,2,3,4,6,7,8-HpCDD	73	23-140	01/19/2016 14:07

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-79-0.5'	1601239-005A	Soil	01/04/2016 10:40	GC36	115477			
Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD	94		17-157					01/19/2016 14:07
13C-2,3,7,8-TCDF	87		24-169					01/19/2016 14:07
13C-1,2,3,7,8-PeCDF	84		24-185					01/19/2016 14:07
13C-2,3,4,7,8-PeCDF	82		21-178					01/19/2016 14:07
13C-1,2,3,4,7,8-HxCDF	81		26-152					01/19/2016 14:07
13C-1,2,3,6,7,8-HxCDF	76		26-123					01/19/2016 14:07
13C-2,3,4,6,7,8-HxCDF	82		28-136					01/19/2016 14:07
13C-1,2,3,7,8,9-HxCDF	81		29-147					01/19/2016 14:07
13C-1,2,3,4,6,7,8-HpCDF	73		28-143					01/19/2016 14:07
13C-1,2,3,4,7,8,9-HpCDF	81		26-138					01/19/2016 14:07

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-80-1'	1601239-007A	Soil	01/04/2016 11:00	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/19/2016 15:03
1,2,3,7,8-PeCDD		ND	2.50	1				01/19/2016 15:03
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 15:03
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 15:03
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 15:03
1,2,3,4,6,7,8-HpCDD	0.01	29.1	2.50	1	1.02	1	0.291	01/19/2016 15:03
OCDD	0.0003	391	5.00	1	0.89	1	0.1173	01/19/2016 15:03
2,3,7,8-TCDF		ND	0.500	1				01/19/2016 15:03
1,2,3,7,8-PeCDF		ND	2.50	1				01/19/2016 15:03
2,3,4,7,8-PeCDF		ND	2.50	1				01/19/2016 15:03
1,2,3,4,7,8-HxCDF		ND	2.50	1				01/19/2016 15:03
1,2,3,6,7,8-HxCDF		ND	2.50	1				01/19/2016 15:03
2,3,4,6,7,8-HxCDF		ND	2.50	1				01/19/2016 15:03
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 15:03
1,2,3,4,6,7,8-HpCDF	0.01	9.06	2.50	1	1.01	1	0.0906	01/19/2016 15:03
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				01/19/2016 15:03
OCDF	0.0003	22.2	5.00	1	0.86	1.01	0.00666	01/19/2016 15:03
Total-Tetradoxins		ND	0.500	1				01/19/2016 15:03
Total-Heptadoxins		52.5	2.50	1				01/19/2016 15:03
Total-Hexadoxins		4.44	2.50	1				01/19/2016 15:03
Total-Pentadoxins		ND	2.50	1				01/19/2016 15:03
Total-Tetrafurans		ND	0.500	1				01/19/2016 15:03
Total-Heptafurans		35.2	2.50	1				01/19/2016 15:03
Total-Hexafurans		8.78	2.50	1				01/19/2016 15:03
Total-Pentafurans		ND	2.50	1				01/19/2016 15:03

Total TEQ: 0.506

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	95	35-197	01/19/2016 15:03
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	91	25-164	01/19/2016 15:03
13C-1,2,3,7,8-PeCDD	103	25-181	01/19/2016 15:03
13C-1,2,3,4,7,8-HxCDD	95	32-141	01/19/2016 15:03
13C-1,2,3,6,7,8-HxCDD	85	28-130	01/19/2016 15:03
13C-1,2,3,4,6,7,8-HpCDD	83	23-140	01/19/2016 15:03

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-1'	1601239-007A	Soil	01/04/2016 11:00	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		92	17-157					01/19/2016 15:03
13C-2,3,7,8-TCDF		86	24-169					01/19/2016 15:03
13C-1,2,3,7,8-PeCDF		92	24-185					01/19/2016 15:03
13C-2,3,4,7,8-PeCDF		91	21-178					01/19/2016 15:03
13C-1,2,3,4,7,8-HxCDF		80	26-152					01/19/2016 15:03
13C-1,2,3,6,7,8-HxCDF		76	26-123					01/19/2016 15:03
13C-2,3,4,6,7,8-HxCDF		76	28-136					01/19/2016 15:03
13C-1,2,3,7,8,9-HxCDF		79	29-147					01/19/2016 15:03
13C-1,2,3,4,6,7,8-HpCDF		75	28-143					01/19/2016 15:03
13C-1,2,3,4,7,8,9-HpCDF		77	26-138					01/19/2016 15:03

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-80-5'	1601239-008A	Soil	01/04/2016 11:20	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/19/2016 15:59
1,2,3,7,8-PeCDD		ND	2.50	1				01/19/2016 15:59
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 15:59
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 15:59
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 15:59
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				01/19/2016 15:59
OCDD	0.0003	22.7	5.00	1	0.87	1	0.00681	01/19/2016 15:59
2,3,7,8-TCDF		ND	0.500	1				01/19/2016 15:59
1,2,3,7,8-PeCDF		ND	2.50	1				01/19/2016 15:59
2,3,4,7,8-PeCDF		ND	2.50	1				01/19/2016 15:59
1,2,3,4,7,8-HxCDF		ND	2.50	1				01/19/2016 15:59
1,2,3,6,7,8-HxCDF		ND	2.50	1				01/19/2016 15:59
2,3,4,6,7,8-HxCDF		ND	2.50	1				01/19/2016 15:59
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 15:59
1,2,3,4,6,7,8-HpCDF		ND	2.50	1				01/19/2016 15:59
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				01/19/2016 15:59
OCDF		ND	5.00	1				01/19/2016 15:59
Total-Tetradoxins		ND	0.500	1				01/19/2016 15:59
Total-Heptadoxins		3.92	2.50	1				01/19/2016 15:59
Total-Hexadoxins		ND	2.50	1				01/19/2016 15:59
Total-Pentadoxins		ND	2.50	1				01/19/2016 15:59
Total-Tetrafurans		ND	0.500	1				01/19/2016 15:59
Total-Heptafurans		ND	2.50	1				01/19/2016 15:59
Total-Hexafurans		ND	2.50	1				01/19/2016 15:59
Total-Pentafurans		ND	2.50	1				01/19/2016 15:59

Total TEQ: 0.00681

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	91	35-197	01/19/2016 15:59
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	85	25-164	01/19/2016 15:59
13C-1,2,3,7,8-PeCDD	112	25-181	01/19/2016 15:59
13C-1,2,3,4,7,8-HxCDD	91	32-141	01/19/2016 15:59
13C-1,2,3,6,7,8-HxCDD	82	28-130	01/19/2016 15:59
13C-1,2,3,4,6,7,8-HpCDD	83	23-140	01/19/2016 15:59

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-5'	1601239-008A	Soil	01/04/2016 11:20	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		83	17-157					01/19/2016 15:59
13C-2,3,7,8-TCDF		83	24-169					01/19/2016 15:59
13C-1,2,3,7,8-PeCDF		98	24-185					01/19/2016 15:59
13C-2,3,4,7,8-PeCDF		100	21-178					01/19/2016 15:59
13C-1,2,3,4,7,8-HxCDF		77	26-152					01/19/2016 15:59
13C-1,2,3,6,7,8-HxCDF		71	26-123					01/19/2016 15:59
13C-2,3,4,6,7,8-HxCDF		75	28-136					01/19/2016 15:59
13C-1,2,3,7,8,9-HxCDF		76	29-147					01/19/2016 15:59
13C-1,2,3,4,6,7,8-HpCDF		74	28-143					01/19/2016 15:59
13C-1,2,3,4,7,8,9-HpCDF		73	26-138					01/19/2016 15:59

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-81-1.5'	1601239-010A	Soil	01/04/2016 11:30	GC36	115477			
Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	0.500	1				01/19/2016 16:56
1,2,3,7,8-PeCDD		ND	2.50	1				01/19/2016 16:56
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 16:56
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 16:56
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 16:56
1,2,3,4,6,7,8-HpCDD	0.01	51.4	2.50	1	1	1	0.514	01/19/2016 16:56
OCDD	0.0003	569	5.00	1	0.91	1	0.1707	01/19/2016 16:56
2,3,7,8-TCDF	0.1	0.900	0.500	1	0.68	1	0.09	01/19/2016 16:56
1,2,3,7,8-PeCDF		ND	2.50	1				01/19/2016 16:56
2,3,4,7,8-PeCDF		ND	2.50	1				01/19/2016 16:56
1,2,3,4,7,8-HxCDF	0.1	3.46	2.50	1	1.25	1	0.346	01/19/2016 16:56
1,2,3,6,7,8-HxCDF	0.1	4.76	2.50	1	1.33	1	0.476	01/19/2016 16:56
2,3,4,6,7,8-HxCDF		ND	2.50	1				01/19/2016 16:56
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 16:56
1,2,3,4,6,7,8-HpCDF	0.01	18.2	2.50	1	1.02	1	0.182	01/19/2016 16:56
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				01/19/2016 16:56
OCDF	0.0003	42.1	5.00	1	0.86	1.01	0.01263	01/19/2016 16:56
Total-Tetradoxins		ND	0.500	1				01/19/2016 16:56
Total-Heptadoxins		93.7	2.50	1				01/19/2016 16:56
Total-Hexadoxins		ND	2.50	1				01/19/2016 16:56
Total-Pentadoxins		ND	2.50	1				01/19/2016 16:56
Total-Tetrafurans		5.02	0.500	1				01/19/2016 16:56
Total-Heptafurans		65.2	2.50	1				01/19/2016 16:56
Total-Hexafurans		34.9	2.50	1				01/19/2016 16:56
Total-Pentafurans		3.54	2.50	1				01/19/2016 16:56

Total TEQ: 1.79

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	94	35-197	01/19/2016 16:56
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	87	25-164	01/19/2016 16:56
13C-1,2,3,7,8-PeCDD	107	25-181	01/19/2016 16:56
13C-1,2,3,4,7,8-HxCDD	91	32-141	01/19/2016 16:56
13C-1,2,3,6,7,8-HxCDD	77	28-130	01/19/2016 16:56
13C-1,2,3,4,6,7,8-HpCDD	66	23-140	01/19/2016 16:56

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-81-1.5'	1601239-010A	Soil	01/04/2016 11:30	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		82	17-157					01/19/2016 16:56
13C-2,3,7,8-TCDF		89	24-169					01/19/2016 16:56
13C-1,2,3,7,8-PeCDF		98	24-185					01/19/2016 16:56
13C-2,3,4,7,8-PeCDF		97	21-178					01/19/2016 16:56
13C-1,2,3,4,7,8-HxCDF		75	26-152					01/19/2016 16:56
13C-1,2,3,6,7,8-HxCDF		70	26-123					01/19/2016 16:56
13C-2,3,4,6,7,8-HxCDF		72	28-136					01/19/2016 16:56
13C-1,2,3,7,8,9-HxCDF		77	29-147					01/19/2016 16:56
13C-1,2,3,4,6,7,8-HpCDF		71	28-143					01/19/2016 16:56
13C-1,2,3,4,7,8,9-HpCDF		75	26-138					01/19/2016 16:56

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-82A-1.5'	1601239-012A	Soil	01/04/2016 08:50	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/20/2016 16:28
1,2,3,7,8-PeCDD		ND	2.50	1				01/20/2016 16:28
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 17:51
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 17:51
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 17:51
1,2,3,4,6,7,8-HpCDD	0.01	66.9	2.50	1	1.02	1	0.669	01/19/2016 17:51
OCDD	0.0003	1230	5.00	1	0.89	1	0.369	01/19/2016 17:51
2,3,7,8-TCDF	0.1	57.4	0.500	1	0.71	1	5.74	01/20/2016 16:28
1,2,3,7,8-PeCDF	0.03	30.7	2.50	1	1.66	1	0.921	01/20/2016 16:28
2,3,4,7,8-PeCDF	0.3	75.3	2.50	1	1.47	1	22.59	01/20/2016 16:28
1,2,3,4,7,8-HxCDF	0.1	109	2.50	1	1.27	1	10.9	01/19/2016 17:51
1,2,3,6,7,8-HxCDF	0.1	46.9	2.50	1	1.26	1	4.69	01/19/2016 17:51
2,3,4,6,7,8-HxCDF	0.1	42.4	2.50	1	1.25	1	4.24	01/19/2016 17:51
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 17:51
1,2,3,4,6,7,8-HpCDF	0.01	48.9	2.50	1	1.04	1	0.489	01/19/2016 17:51
1,2,3,4,7,8,9-HpCDF	0.01	35.4	2.50	1	1.01	1	0.354	01/19/2016 17:51
OCDF	0.0003	58.0	5.00	1	0.9	1.01	0.0174	01/19/2016 17:51
Total-Tetradoxins		ND	0.500	1				01/20/2016 16:28
Total-Heptadoxins		146	2.50	1				01/19/2016 17:51
Total-Hexadoxins		14.0	2.50	1				01/19/2016 17:51
Total-Pentadoxins		ND	2.50	1				01/20/2016 16:28
Total-Tetrafurans		351	0.500	1				01/20/2016 16:28
Total-Heptafurans		159	2.50	1				01/19/2016 17:51
Total-Hexafurans		399	2.50	1				01/19/2016 17:51
Total-Pentafurans		481	2.50	1				01/20/2016 16:28

Total TEQ: 51.0

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	NR	35-197	01/20/2016 16:28
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	83	25-164	01/20/2016 16:28
13C-1,2,3,7,8-PeCDD	75	25-181	01/20/2016 16:28
13C-1,2,3,4,7,8-HxCDD	87	32-141	01/19/2016 17:51
13C-1,2,3,6,7,8-HxCDD	72	28-130	01/19/2016 17:51
13C-1,2,3,4,6,7,8-HpCDD	69	23-140	01/19/2016 17:51

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82A-1.5'	1601239-012A	Soil	01/04/2016 08:50	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		89	17-157					01/19/2016 17:51
13C-2,3,7,8-TCDF		72	24-169					01/20/2016 16:28
13C-1,2,3,7,8-PeCDF		68	24-185					01/20/2016 16:28
13C-2,3,4,7,8-PeCDF		68	21-178					01/20/2016 16:28
13C-1,2,3,4,7,8-HxCDF		74	26-152					01/19/2016 17:51
13C-1,2,3,6,7,8-HxCDF		71	26-123					01/19/2016 17:51
13C-2,3,4,6,7,8-HxCDF		72	28-136					01/19/2016 17:51
13C-1,2,3,7,8,9-HxCDF		75	29-147					01/19/2016 17:51
13C-1,2,3,4,6,7,8-HpCDF		72	28-143					01/19/2016 17:51
13C-1,2,3,4,7,8,9-HpCDF		77	26-138					01/19/2016 17:51

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-82B-2'	1601239-014A	Soil	01/04/2016 08:00	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/20/2016 01:38
1,2,3,7,8-PeCDD		ND	2.50	1				01/20/2016 01:38
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/20/2016 01:38
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/20/2016 01:38
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/20/2016 01:38
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				01/20/2016 01:38
OCDD	0.0003	28.8	5.00	1	0.9	1	0.00864	01/20/2016 01:38
2,3,7,8-TCDF		ND	0.500	1				01/20/2016 01:38
1,2,3,7,8-PeCDF		ND	2.50	1				01/20/2016 01:38
2,3,4,7,8-PeCDF		ND	2.50	1				01/20/2016 01:38
1,2,3,4,7,8-HxCDF		ND	2.50	1				01/20/2016 01:38
1,2,3,6,7,8-HxCDF		ND	2.50	1				01/20/2016 01:38
2,3,4,6,7,8-HxCDF		ND	2.50	1				01/20/2016 01:38
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/20/2016 01:38
1,2,3,4,6,7,8-HpCDF		ND	2.50	1				01/20/2016 01:38
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				01/20/2016 01:38
OCDF		ND	5.00	1				01/20/2016 01:38
Total-Tetradoxins		ND	0.500	1				01/20/2016 01:38
Total-Heptadoxins		3.62	2.50	1				01/20/2016 01:38
Total-Hexadoxins		ND	2.50	1				01/20/2016 01:38
Total-Pentadoxins		ND	2.50	1				01/20/2016 01:38
Total-Tetrafurans		1.80	0.500	1				01/20/2016 01:38
Total-Heptafurans		ND	2.50	1				01/20/2016 01:38
Total-Hexafurans		ND	2.50	1				01/20/2016 01:38
Total-Pentafurans		ND	2.50	1				01/20/2016 01:38

Total TEQ: 0.00864

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	109	35-197	01/20/2016 01:38
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	94	25-164	01/20/2016 01:38
13C-1,2,3,7,8-PeCDD	126	25-181	01/20/2016 01:38
13C-1,2,3,4,7,8-HxCDD	97	32-141	01/20/2016 01:38
13C-1,2,3,6,7,8-HxCDD	87	28-130	01/20/2016 01:38
13C-1,2,3,4,6,7,8-HpCDD	93	23-140	01/20/2016 01:38

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82B-2'	1601239-014A	Soil	01/04/2016 08:00	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		98	17-157					01/20/2016 01:38
13C-2,3,7,8-TCDF		95	24-169					01/20/2016 01:38
13C-1,2,3,7,8-PeCDF		125	24-185					01/20/2016 01:38
13C-2,3,4,7,8-PeCDF		123	21-178					01/20/2016 01:38
13C-1,2,3,4,7,8-HxCDF		86	26-152					01/20/2016 01:38
13C-1,2,3,6,7,8-HxCDF		79	26-123					01/20/2016 01:38
13C-2,3,4,6,7,8-HxCDF		83	28-136					01/20/2016 01:38
13C-1,2,3,7,8,9-HxCDF		87	29-147					01/20/2016 01:38
13C-1,2,3,4,6,7,8-HpCDF		85	28-143					01/20/2016 01:38
13C-1,2,3,4,7,8,9-HpCDF		90	26-138					01/20/2016 01:38

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-83-1'	1601239-016A	Soil	01/04/2016 08:30	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/20/2016 17:23
1,2,3,7,8-PeCDD		ND	2.50	1				01/20/2016 17:23
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 22:51
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 22:51
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 22:51
1,2,3,4,6,7,8-HpCDD	0.01	5.56	2.50	1	0.94	1	0.0556	01/19/2016 22:51
OCDD	0.0003	60.5	5.00	1	0.87	1	0.01815	01/19/2016 22:51
2,3,7,8-TCDF	0.1	76.5	0.500	1	0.73	1	7.65	01/20/2016 17:23
1,2,3,7,8-PeCDF	0.03	23.4	2.50	1	1.71	1	0.702	01/20/2016 17:23
2,3,4,7,8-PeCDF	0.3	59.8	2.50	1	1.57	1	17.94	01/20/2016 17:23
1,2,3,4,7,8-HxCDF	0.1	98.5	2.50	1	1.25	1	9.85	01/19/2016 22:51
1,2,3,6,7,8-HxCDF	0.1	34.1	2.50	1	1.26	1	3.41	01/19/2016 22:51
2,3,4,6,7,8-HxCDF	0.1	32.6	2.50	1	1.22	1	3.26	01/19/2016 22:51
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 22:51
1,2,3,4,6,7,8-HpCDF	0.01	47.5	2.50	1	1.04	1	0.475	01/19/2016 22:51
1,2,3,4,7,8,9-HpCDF	0.01	36.6	2.50	1	1.03	1	0.366	01/19/2016 22:51
OCDF	0.0003	46.7	5.00	1	0.88	1.01	0.01401	01/19/2016 22:51
Total-Tetradoxins		ND	0.500	1				01/20/2016 17:23
Total-Heptadoxins		11.4	2.50	1				01/19/2016 22:51
Total-Hexadoxins		3.08	2.50	1				01/19/2016 22:51
Total-Pentadoxins		ND	2.50	1				01/20/2016 17:23
Total-Tetrafurans		794	0.500	1				01/20/2016 17:23
Total-Heptafurans		144	2.50	1				01/19/2016 22:51
Total-Hexafurans		363	2.50	1				01/19/2016 22:51
Total-Pentafurans		561	2.50	1				01/20/2016 17:23

Total TEQ: 43.7

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	NR	35-197	01/20/2016 17:23
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	83	25-164	01/20/2016 17:23
13C-1,2,3,7,8-PeCDD	79	25-181	01/20/2016 17:23
13C-1,2,3,4,7,8-HxCDD	94	32-141	01/19/2016 22:51
13C-1,2,3,6,7,8-HxCDD	87	28-130	01/19/2016 22:51
13C-1,2,3,4,6,7,8-HpCDD	90	23-140	01/19/2016 22:51

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-1'	1601239-016A	Soil	01/04/2016 08:30	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		89	17-157					01/19/2016 22:51
13C-2,3,7,8-TCDF		79	24-169					01/20/2016 17:23
13C-1,2,3,7,8-PeCDF		72	24-185					01/20/2016 17:23
13C-2,3,4,7,8-PeCDF		72	21-178					01/20/2016 17:23
13C-1,2,3,4,7,8-HxCDF		79	26-152					01/19/2016 22:51
13C-1,2,3,6,7,8-HxCDF		74	26-123					01/19/2016 22:51
13C-2,3,4,6,7,8-HxCDF		79	28-136					01/19/2016 22:51
13C-1,2,3,7,8,9-HxCDF		82	29-147					01/19/2016 22:51
13C-1,2,3,4,6,7,8-HpCDF		78	28-143					01/19/2016 22:51
13C-1,2,3,4,7,8,9-HpCDF		82	26-138					01/19/2016 22:51

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-83-5'	1601239-017A	Soil	01/04/2016 08:45	GC36	115477			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	0.500	1				01/19/2016 23:47
1,2,3,7,8-PeCDD		ND	2.50	1				01/19/2016 23:47
1,2,3,4,7,8-HxCDD		ND	2.50	1				01/19/2016 23:47
1,2,3,6,7,8-HxCDD		ND	2.50	1				01/19/2016 23:47
1,2,3,7,8,9-HxCDD		ND	2.50	1				01/19/2016 23:47
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				01/19/2016 23:47
OCDD		ND	5.00	1				01/19/2016 23:47
2,3,7,8-TCDF	0.1	8.60	0.500	1	0.83	1	0.86	01/19/2016 23:47
1,2,3,7,8-PeCDF	0.03	3.42	2.50	1	1.65	1	0.1026	01/19/2016 23:47
2,3,4,7,8-PeCDF	0.3	14.5	2.50	1	1.54	1	4.35	01/19/2016 23:47
1,2,3,4,7,8-HxCDF	0.1	25.4	2.50	1	1.24	1	2.54	01/19/2016 23:47
1,2,3,6,7,8-HxCDF	0.1	8.80	2.50	1	1.24	1	0.88	01/19/2016 23:47
2,3,4,6,7,8-HxCDF	0.1	10.2	2.50	1	1.28	1	1.02	01/19/2016 23:47
1,2,3,7,8,9-HxCDF		ND	2.50	1				01/19/2016 23:47
1,2,3,4,6,7,8-HpCDF	0.01	10.8	2.50	1	0.99	1	0.108	01/19/2016 23:47
1,2,3,4,7,8,9-HpCDF	0.01	8.92	2.50	1	1.06	1	0.0892	01/19/2016 23:47
OCDF	0.0003	10.3	5.00	1	0.89	1.01	0.00309	01/19/2016 23:47
Total-Tetradoxins		ND	0.500	1				01/19/2016 23:47
Total-Heptadoxins		ND	2.50	1				01/19/2016 23:47
Total-Hexadoxins		ND	2.50	1				01/19/2016 23:47
Total-Pentadoxins		ND	2.50	1				01/19/2016 23:47
Total-Tetrafurans		77.9	0.500	1				01/19/2016 23:47
Total-Heptafurans		33.7	2.50	1				01/19/2016 23:47
Total-Hexafurans		87.3	2.50	1				01/19/2016 23:47
Total-Pentafurans		84.5	2.50	1				01/19/2016 23:47

Total TEQ: 9.95

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	NR	35-197	01/19/2016 23:47
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	93	25-164	01/19/2016 23:47
13C-1,2,3,7,8-PeCDD	121	25-181	01/19/2016 23:47
13C-1,2,3,4,7,8-HxCDD	99	32-141	01/19/2016 23:47
13C-1,2,3,6,7,8-HxCDD	89	28-130	01/19/2016 23:47
13C-1,2,3,4,6,7,8-HpCDD	93	23-140	01/19/2016 23:47

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-5'	1601239-017A	Soil	01/04/2016 08:45	GC36	115477

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		91	17-157					01/19/2016 23:47
13C-2,3,7,8-TCDF		96	24-169					01/19/2016 23:47
13C-1,2,3,7,8-PeCDF		107	24-185					01/19/2016 23:47
13C-2,3,4,7,8-PeCDF		103	21-178					01/19/2016 23:47
13C-1,2,3,4,7,8-HxCDF		85	26-152					01/19/2016 23:47
13C-1,2,3,6,7,8-HxCDF		79	26-123					01/19/2016 23:47
13C-2,3,4,6,7,8-HxCDF		78	28-136					01/19/2016 23:47
13C-1,2,3,7,8,9-HxCDF		84	29-147					01/19/2016 23:47
13C-1,2,3,4,6,7,8-HpCDF		83	28-143					01/19/2016 23:47
13C-1,2,3,4,7,8,9-HpCDF		88	26-138					01/19/2016 23:47

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID				
B-84-1.5'	1601239-019A	Soil	01/04/2016 09:10	GC36	115477				
Analytes	TEF WHO '05	Result	Qualifiers	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD	1	3.86	M	0.500	1	0.49	1	3.86	01/20/2016 15:21
1,2,3,7,8-PeCDD		ND		2.50	1				01/20/2016 15:21
1,2,3,4,7,8-HxCDD		ND		2.50	1				01/20/2016 00:42
1,2,3,6,7,8-HxCDD	0.1	8.60	M	2.50	1	0.68	1	0.86	01/20/2016 00:42
1,2,3,7,8,9-HxCDD		ND		2.50	1				01/20/2016 00:42
1,2,3,4,6,7,8-HpCDD	0.01	158		2.50	1	1.05	1	1.58	01/20/2016 00:42
OCDD	0.0003	2500		5.00	1	0.89	1	0.75	01/20/2016 00:42
2,3,7,8-TCDF	0.1	466		0.500	1	0.77	1	46.6	01/20/2016 15:21
1,2,3,7,8-PeCDF	0.03	198		2.50	1	1.59	1	5.94	01/20/2016 15:21
2,3,4,7,8-PeCDF	0.3	739		2.50	1	1.54	1	221.7	01/20/2016 15:21
1,2,3,4,7,8-HxCDF	0.1	1390		2.50	1	1.27	1	139	01/20/2016 00:42
1,2,3,6,7,8-HxCDF	0.1	609		2.50	1	1.32	1	60.9	01/20/2016 00:42
2,3,4,6,7,8-HxCDF	0.1	544		2.50	1	1.24	1	54.4	01/20/2016 00:42
1,2,3,7,8,9-HxCDF		ND		2.50	1				01/20/2016 00:42
1,2,3,4,6,7,8-HpCDF	0.01	625		2.50	1	1.03	1	6.25	01/20/2016 00:42
1,2,3,4,7,8,9-HpCDF	0.01	490		2.50	1	1.04	1	4.9	01/20/2016 00:42
OCDF	0.0003	740		5.00	1	0.89	1.01	0.222	01/20/2016 00:42
Total-Tetradoxins		ND		0.500	1				01/20/2016 15:21
Total-Heptadoxins		346		2.50	1				01/20/2016 00:42
Total-Hexadoxins		17.2		2.50	1				01/20/2016 00:42
Total-Pentadoxins		ND		2.50	1				01/20/2016 15:21
Total-Tetrafurans		2850		0.500	1				01/20/2016 15:21
Total-Heptafurans		1930		2.50	1				01/20/2016 00:42
Total-Hexafurans		4960		2.50	1				01/20/2016 00:42
Total-Pentafurans		4320		2.50	1				01/20/2016 15:21

Total TEQ: 547

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	NR	35-197	01/20/2016 15:21
Labeled Compound Recovery			
13C-2,3,7,8-TCDD	88	25-164	01/20/2016 15:21
13C-1,2,3,7,8-PeCDD	83	25-181	01/20/2016 15:21
13C-1,2,3,4,7,8-HxCDD	87	32-141	01/20/2016 00:42
13C-1,2,3,6,7,8-HxCDD	68	28-130	01/20/2016 00:42
13C-1,2,3,4,6,7,8-HpCDD	71	23-140	01/20/2016 00:42

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/12/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-84-1.5'	1601239-019A	Soil	01/04/2016 09:10	GC36	115477

Analytes	TEF WHO '05	Result	Qualifiers	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		101		17-157					01/20/2016 00:42
13C-2,3,7,8-TCDF		84		24-169					01/20/2016 15:21
13C-1,2,3,7,8-PeCDF		78		24-185					01/20/2016 15:21
13C-2,3,4,7,8-PeCDF		76		21-178					01/20/2016 15:21
13C-1,2,3,4,7,8-HxCDF		86		26-152					01/20/2016 00:42
13C-1,2,3,6,7,8-HxCDF		76		26-123					01/20/2016 00:42
13C-2,3,4,6,7,8-HxCDF		82		28-136					01/20/2016 00:42
13C-1,2,3,7,8,9-HxCDF		90		29-147					01/20/2016 00:42
13C-1,2,3,4,6,7,8-HpCDF		90		28-143					01/20/2016 00:42
13C-1,2,3,4,7,8,9-HpCDF		107		26-138					01/20/2016 00:42

Analyst(s): MG



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/19/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/L

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID				
B-80-GW	1601239-009C	Water	01/04/2016 11:30	GC36	115694				
Analytes	TEF WHO '05	Result	Qualifiers	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND		5.00	1				01/25/2016 17:55
1,2,3,7,8-PeCDD		ND		25.0	1				01/25/2016 17:55
1,2,3,4,7,8-HxCDD		ND		25.0	1				01/25/2016 17:55
1,2,3,6,7,8-HxCDD		ND		25.0	1				01/25/2016 17:55
1,2,3,7,8,9-HxCDD		ND		25.0	1				01/25/2016 17:55
1,2,3,4,6,7,8-HpCDD	0.01	1210		25.0	1	1.05	1	12.1	01/25/2016 17:55
OCDD	0.0003	14,600		50.0	1	0.9	1	4.38	01/25/2016 17:55
2,3,7,8-TCDF		ND		5.00	1				01/25/2016 17:55
1,2,3,7,8-PeCDF		ND		25.0	1				01/25/2016 17:55
2,3,4,7,8-PeCDF	0.3	79.8	M	25.0	1	1.29	1	23.94	01/25/2016 17:55
1,2,3,4,7,8-HxCDF	0.1	161		25.0	1	1.42	1	16.1	01/25/2016 17:55
1,2,3,6,7,8-HxCDF	0.1	168		25.0	1	1.29	1	16.8	01/25/2016 17:55
2,3,4,6,7,8-HxCDF	0.1	70.9		25.0	1	1.35	1	7.09	01/25/2016 17:55
1,2,3,7,8,9-HxCDF		ND		25.0	1				01/25/2016 17:55
1,2,3,4,6,7,8-HpCDF	0.01	327		25.0	1	1.17	1	3.27	01/25/2016 17:55
1,2,3,4,7,8,9-HpCDF		ND		25.0	1				01/25/2016 17:55
OCDF	0.0003	1210		50.0	1	0.94	1.01	0.363	01/25/2016 17:55
Total-Tetradoxins		ND		5.00	1				01/25/2016 17:55
Total-Pentadoxins		ND		25.0	1				01/25/2016 17:55
Total-Hexadoxins		ND		25.0	1				01/25/2016 17:55
Total-Heptadoxins		2030		25.0	1				01/25/2016 17:55
Total-Tetrafurans		ND		5.00	1				01/25/2016 17:55
Total-Pentafurans		1700		25.0	1				01/25/2016 17:55
Total-Hexafurans		894		25.0	1				01/25/2016 17:55
Total-Heptafurans		1440		25.0	1				01/25/2016 17:55

Total TEQ: 84.0

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	NR	35-197	01/26/2016 11:26
Labeled Compound Recovery			
13C-2,3,7,8-TCDD	62	25-164	01/26/2016 11:26
13C-1,2,3,7,8-PeCDD	60	25-181	01/26/2016 11:26
13C-1,2,3,4,7,8-HxCDD	47	32-141	01/26/2016 11:26
13C-1,2,3,6,7,8-HxCDD	44	28-130	01/26/2016 11:26
13C-1,2,3,4,6,7,8-HpCDD	42	23-140	01/26/2016 11:26

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/19/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/L

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-GW	1601239-009C	Water	01/04/2016 11:30	GC36	115694

Analytes	TEF WHO '05	Result	Qualifiers	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		44		17-157					01/26/2016 11:26
13C-2,3,7,8-TCDF		56		24-169					01/26/2016 11:26
13C-1,2,3,7,8-PeCDF		60		24-185					01/26/2016 11:26
13C-2,3,4,7,8-PeCDF		60		21-178					01/26/2016 11:26
13C-1,2,3,4,7,8-HxCDF		47		26-152					01/25/2016 17:55
13C-1,2,3,6,7,8-HxCDF		44		26-123					01/25/2016 17:55
13C-2,3,4,6,7,8-HxCDF		49		28-136					01/25/2016 17:55
13C-1,2,3,7,8,9-HxCDF		46		29-147					01/25/2016 17:55
13C-1,2,3,4,6,7,8-HpCDF		43		28-143					01/26/2016 11:26
13C-1,2,3,4,7,8,9-HpCDF		47		26-138					01/26/2016 11:26

Analyst(s): MG

Analytical Comments: b1



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/19/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/L

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-83-GW	1601239-018C	Water	01/04/2016 09:45	GC36	115694			
<u>Analytes</u>	<u>TEF</u> <u>WHO '05</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Ion Ratio</u>	<u>RRT</u>	<u>TEQ</u>	<u>Date Analyzed</u>
2,3,7,8-TCDD		ND	5.00	1				01/26/2016 12:45
1,2,3,7,8-PeCDD		ND	25.0	1				01/26/2016 12:45
1,2,3,4,7,8-HxCDD		ND	25.0	1				01/26/2016 12:45
1,2,3,6,7,8-HxCDD		ND	25.0	1				01/26/2016 12:45
1,2,3,7,8,9-HxCDD		ND	25.0	1				01/26/2016 12:45
1,2,3,4,6,7,8-HpCDD	0.01	382	25.0	1	1.03	1	3.82	01/26/2016 12:45
OCDD	0.0003	3170	50.0	1	0.87	1	0.951	01/26/2016 12:45
2,3,7,8-TCDF	0.1	3970	5.00	1	0.81	1	397	01/26/2016 12:45
1,2,3,7,8-PeCDF	0.03	2180	25.0	1	1.52	1	65.4	01/26/2016 12:45
2,3,4,7,8-PeCDF	0.3	8720	25.0	1	1.47	1	2616	01/26/2016 12:45
1,2,3,4,7,8-HxCDF	0.1	16,500	25.0	1	1.26	1	1650	01/26/2016 12:45
1,2,3,6,7,8-HxCDF	0.1	6070	25.0	1	1.27	1	607	01/26/2016 12:45
2,3,4,6,7,8-HxCDF	0.1	6530	25.0	1	1.24	1	653	01/26/2016 12:45
1,2,3,7,8,9-HxCDF		ND	25.0	1				01/26/2016 12:45
1,2,3,4,6,7,8-HpCDF	0.01	7140	25.0	1	1.04	1	71.4	01/26/2016 12:45
1,2,3,4,7,8,9-HpCDF	0.01	6120	25.0	1	1.04	1	61.2	01/26/2016 12:45
OCDF	0.0003	7540	50.0	1	0.89	1.01	2.262	01/26/2016 12:45
Total-Tetradoxins		ND	5.00	1				01/26/2016 12:45
Total-Pentadoxins		ND	25.0	1				01/26/2016 12:45
Total-Hexadoxins		ND	25.0	1				01/26/2016 12:45
Total-Heptadoxins		654	25.0	1				01/26/2016 12:45
Total-Tetrafurans		12,000	5.00	1				01/26/2016 12:45
Total-Pentafurans		49,400	25.0	1				01/26/2016 12:45
Total-Hexafurans		61,300	25.0	1				01/26/2016 12:45
Total-Heptafurans		22,900	25.0	1				01/26/2016 12:45

Total TEQ: 6130

<u>Cleanup Standard</u>	<u>REC (%)</u>	<u>Limits</u>	
37Cl-2,3,7,8-TCDD	NR	35-197	01/26/2016 12:45
<u>Labeled Compound Recovery</u>			
13C-2,3,7,8-TCDD	8	S	25-164
13C-1,2,3,7,8-PeCDD	7	S	25-181
13C-1,2,3,4,7,8-HxCDD	5	S	32-141
13C-1,2,3,6,7,8-HxCDD	4	S	28-130
13C-1,2,3,4,6,7,8-HpCDD	5	S	23-140

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** E1613
Date Prepared: 1/19/16 **Analytical Method:** E1613
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** pg/L

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-GW	1601239-018C	Water	01/04/2016 09:45	GC36	115694

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD	4	S	17-157					01/26/2016 12:45
13C-2,3,7,8-TCDF	7	S	24-169					01/26/2016 12:45
13C-1,2,3,7,8-PeCDF	6	S	24-185					01/26/2016 12:45
13C-2,3,4,7,8-PeCDF	6	S	21-178					01/26/2016 12:45
13C-1,2,3,4,7,8-HxCDF	4	S	26-152					01/26/2016 12:45
13C-1,2,3,6,7,8-HxCDF	4	S	26-123					01/26/2016 12:45
13C-2,3,4,6,7,8-HxCDF	4	S	28-136					01/26/2016 12:45
13C-1,2,3,7,8,9-HxCDF	4	S	29-147					01/26/2016 12:45
13C-1,2,3,4,6,7,8-HpCDF	4	S	28-143					01/26/2016 12:45
13C-1,2,3,4,7,8,9-HpCDF	4	S	26-138					01/26/2016 12:45

Analyst(s): MG



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-79-0.5'	1601239-005A	Soil	01/04/2016 10:40	GC5A	115196

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	10	200	01/14/2016 09:09
Aroclor1221	ND	10	200	01/14/2016 09:09
Aroclor1232	ND	10	200	01/14/2016 09:09
Aroclor1242	ND	10	200	01/14/2016 09:09
Aroclor1248	ND	10	200	01/14/2016 09:09
Aroclor1254	ND	10	200	01/14/2016 09:09
Aroclor1260	ND	10	200	01/14/2016 09:09
PCBs, total	ND	10	200	01/14/2016 09:09

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	194	S	70-130	01/14/2016 09:09

Analyst(s): SS Analytical Comments: a1,c7,h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-1'	1601239-007A	Soil	01/04/2016 11:00	GC5A	115196

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	10	01/13/2016 21:15
Aroclor1221	ND	0.50	10	01/13/2016 21:15
Aroclor1232	ND	0.50	10	01/13/2016 21:15
Aroclor1242	ND	0.50	10	01/13/2016 21:15
Aroclor1248	ND	0.50	10	01/13/2016 21:15
Aroclor1254	ND	0.50	10	01/13/2016 21:15
Aroclor1260	ND	0.50	10	01/13/2016 21:15
PCBs, total	ND	0.50	10	01/13/2016 21:15

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	130	70-130	01/13/2016 21:15

Analyst(s): SS Analytical Comments: a1,h4

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 1/8/16 **Analytical Method:** SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-5'	1601239-008A	Soil	01/04/2016 11:20	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		1.0	20	01/13/2016 18:43
Aroclor1221	ND		1.0	20	01/13/2016 18:43
Aroclor1232	ND		1.0	20	01/13/2016 18:43
Aroclor1242	ND		1.0	20	01/13/2016 18:43
Aroclor1248	ND		1.0	20	01/13/2016 18:43
Aroclor1254	3.0		1.0	20	01/13/2016 18:43
Aroclor1260	ND		1.0	20	01/13/2016 18:43
PCBs, total	3.0		1.0	20	01/13/2016 18:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	115		70-130		01/13/2016 18:43
<u>Analyst(s):</u> SS			<u>Analytical Comments:</u> h4		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-81-1.5'	1601239-010A	Soil	01/04/2016 11:30	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		1.0	20	01/12/2016 20:44
Aroclor1221	ND		1.0	20	01/12/2016 20:44
Aroclor1232	ND		1.0	20	01/12/2016 20:44
Aroclor1242	ND		1.0	20	01/12/2016 20:44
Aroclor1248	ND		1.0	20	01/12/2016 20:44
Aroclor1254	5.5		1.0	20	01/12/2016 20:44
Aroclor1260	ND		1.0	20	01/12/2016 20:44
PCBs, total	5.5		1.0	20	01/12/2016 20:44
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	145	S	70-130		01/12/2016 20:44
<u>Analyst(s):</u> SS			<u>Analytical Comments:</u> h4,c2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82A-1.5'	1601239-012A	Soil	01/04/2016 08:50	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		25	500	01/12/2016 22:38
Aroclor1221	ND		25	500	01/12/2016 22:38
Aroclor1232	ND		25	500	01/12/2016 22:38
Aroclor1242	ND		25	500	01/12/2016 22:38
Aroclor1248	ND		25	500	01/12/2016 22:38
Aroclor1254	180		25	500	01/12/2016 22:38
Aroclor1260	ND		25	500	01/12/2016 22:38
PCBs, total	180		25	500	01/12/2016 22:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	168	S	70-130		01/12/2016 22:38
<u>Analyst(s):</u> SS	<u>Analytical Comments:</u> h4,c7				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82B-2'	1601239-014A	Soil	01/04/2016 08:00	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		1.0	20	01/13/2016 19:21
Aroclor1221	ND		1.0	20	01/13/2016 19:21
Aroclor1232	ND		1.0	20	01/13/2016 19:21
Aroclor1242	ND		1.0	20	01/13/2016 19:21
Aroclor1248	ND		1.0	20	01/13/2016 19:21
Aroclor1254	ND		1.0	20	01/13/2016 19:21
Aroclor1260	ND		1.0	20	01/13/2016 19:21
PCBs, total	ND		1.0	20	01/13/2016 19:21
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	144	S	70-130		01/13/2016 19:21
<u>Analyst(s):</u> SS	<u>Analytical Comments:</u> a1,c2,h4				

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-1'	1601239-016A	Soil	01/04/2016 08:30	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		50	1,000	01/12/2016 23:16
Aroclor1221	ND		50	1,000	01/12/2016 23:16
Aroclor1232	ND		50	1,000	01/12/2016 23:16
Aroclor1242	ND		50	1,000	01/12/2016 23:16
Aroclor1248	ND		50	1,000	01/12/2016 23:16
Aroclor1254	310		50	1,000	01/12/2016 23:16
Aroclor1260	ND		50	1,000	01/12/2016 23:16
PCBs, total	310		50	1,000	01/12/2016 23:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	183	S	70-130		01/12/2016 23:16
<u>Analyst(s):</u> SS			<u>Analytical Comments:</u> h4,c7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-5'	1601239-017A	Soil	01/04/2016 08:45	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		10	200	01/12/2016 18:14
Aroclor1221	ND		10	200	01/12/2016 18:14
Aroclor1232	ND		10	200	01/12/2016 18:14
Aroclor1242	ND		10	200	01/12/2016 18:14
Aroclor1248	ND		10	200	01/12/2016 18:14
Aroclor1254	56		10	200	01/12/2016 18:14
Aroclor1260	ND		10	200	01/12/2016 18:14
PCBs, total	56		10	200	01/12/2016 18:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	102		70-130		01/12/2016 18:14
<u>Analyst(s):</u> SS			<u>Analytical Comments:</u> h4		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-84-1.5'	1601239-019A	Soil	01/04/2016 09:10	GC5A	115196
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		500	10,000	01/12/2016 23:53
Aroclor1221	ND		500	10,000	01/12/2016 23:53
Aroclor1232	ND		500	10,000	01/12/2016 23:53
Aroclor1242	ND		500	10,000	01/12/2016 23:53
Aroclor1248	ND		500	10,000	01/12/2016 23:53
Aroclor1254	2900		500	10,000	01/12/2016 23:53
Aroclor1260	ND		500	10,000	01/12/2016 23:53
PCBs, total	2900		500	10,000	01/12/2016 23:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	444	S	70-130		01/12/2016 23:53
<u>Analyst(s):</u> SS	<u>Analytical Comments:</u> h4,c7				



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3510C
Date Prepared: 1/8/16 **Analytical Method:** SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** µg/L

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-GW	1601239-009B	Water	01/04/2016 11:30	GC20	115197
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		500	1,000	01/12/2016 19:42
Aroclor1221	ND		500	1,000	01/12/2016 19:42
Aroclor1232	ND		500	1,000	01/12/2016 19:42
Aroclor1242	ND		500	1,000	01/12/2016 19:42
Aroclor1248	ND		500	1,000	01/12/2016 19:42
Aroclor1254	3200		500	1,000	01/12/2016 19:42
Aroclor1260	ND		500	1,000	01/12/2016 19:42
PCBs, total	3200		500	1,000	01/12/2016 19:42
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	147	S	70-130		01/12/2016 19:42
<u>Analyst(s):</u> CK	<u>Analytical Comments:</u> c1,b6,b1				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-GW	1601239-018B	Water	01/04/2016 09:45	GC20	115197
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND		5000	10,000	01/13/2016 11:41
Aroclor1221	ND		5000	10,000	01/13/2016 11:41
Aroclor1232	ND		5000	10,000	01/13/2016 11:41
Aroclor1242	ND		5000	10,000	01/13/2016 11:41
Aroclor1248	ND		5000	10,000	01/13/2016 11:41
Aroclor1254	130,000		5000	10,000	01/13/2016 11:41
Aroclor1260	ND		5000	10,000	01/13/2016 11:41
PCBs, total	130,000		5000	10,000	01/13/2016 11:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	318	S	70-130		01/13/2016 11:41
<u>Analyst(s):</u> CK	<u>Analytical Comments:</u> b6,c7				



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-76-3'	1601239-001A	Soil	01/04/2016 13:40	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/12/2016 05:38
MTBE	---	0.050	1	01/12/2016 05:38
Benzene	---	0.0050	1	01/12/2016 05:38
Toluene	---	0.0050	1	01/12/2016 05:38
Ethylbenzene	---	0.0050	1	01/12/2016 05:38
Xylenes	---	0.015	1	01/12/2016 05:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	112	70-130		01/12/2016 05:38

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-77-5'	1601239-002A	Soil	01/04/2016 13:20	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1.1	1.0	1	01/12/2016 06:08
MTBE	---	0.050	1	01/12/2016 06:08
Benzene	---	0.0050	1	01/12/2016 06:08
Toluene	---	0.0050	1	01/12/2016 06:08
Ethylbenzene	---	0.0050	1	01/12/2016 06:08
Xylenes	---	0.015	1	01/12/2016 06:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	109	70-130		01/12/2016 06:08

Analyst(s): IA

Analytical Comments: d7



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 1/8/16 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-78-3'	1601239-004A	Soil	01/04/2016 14:00	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	6.9	1.0	1	01/12/2016 06:38
MTBE	---	0.050	1	01/12/2016 06:38
Benzene	---	0.0050	1	01/12/2016 06:38
Toluene	---	0.0050	1	01/12/2016 06:38
Ethylbenzene	---	0.0050	1	01/12/2016 06:38
Xylenes	---	0.015	1	01/12/2016 06:38

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	94	70-130	01/12/2016 06:38

Analyst(s): IA **Analytical Comments:** d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72-5'	1601239-021A	Soil	01/04/2016 15:00	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1.7	1.0	1	01/14/2016 18:22
MTBE	---	0.050	1	01/14/2016 18:22
Benzene	---	0.0050	1	01/14/2016 18:22
Toluene	---	0.0050	1	01/14/2016 18:22
Ethylbenzene	---	0.0050	1	01/14/2016 18:22
Xylenes	---	0.015	1	01/14/2016 18:22

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	109	70-130	01/14/2016 18:22

Analyst(s): IA **Analytical Comments:** d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72-15'	1601239-023A	Soil	01/04/2016 15:10	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 02:21
MTBE	---	0.050	1	01/13/2016 02:21
Benzene	---	0.0050	1	01/13/2016 02:21
Toluene	---	0.0050	1	01/13/2016 02:21
Ethylbenzene	---	0.0050	1	01/13/2016 02:21
Xylenes	---	0.015	1	01/13/2016 02:21
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/13/2016 02:21

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-10'	1601239-025A	Soil	01/05/2016 09:40	GC7	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/12/2016 01:15
MTBE	---	0.050	1	01/12/2016 01:15
Benzene	---	0.0050	1	01/12/2016 01:15
Toluene	---	0.0050	1	01/12/2016 01:15
Ethylbenzene	---	0.0050	1	01/12/2016 01:15
Xylenes	---	0.015	1	01/12/2016 01:15
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	108	70-130		01/12/2016 01:15

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-15'	1601239-026A	Soil	01/05/2016 10:00	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	61	1.0	1	01/13/2016 04:23
MTBE	---	0.050	1	01/13/2016 04:23
Benzene	---	0.0050	1	01/13/2016 04:23
Toluene	---	0.0050	1	01/13/2016 04:23
Ethylbenzene	---	0.0050	1	01/13/2016 04:23
Xylenes	---	0.015	1	01/13/2016 04:23
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	111	70-130		01/13/2016 04:23

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-10'	1601239-029A	Soil	01/05/2016 11:15	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2.5	1.0	1	01/13/2016 18:54
MTBE	---	0.050	1	01/13/2016 18:54
Benzene	---	0.0050	1	01/13/2016 18:54
Toluene	---	0.0050	1	01/13/2016 18:54
Ethylbenzene	---	0.0050	1	01/13/2016 18:54
Xylenes	---	0.015	1	01/13/2016 18:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		01/13/2016 18:54

Analyst(s): IA

Analytical Comments: d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC19	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	470	20	20	01/13/2016 04:53
MTBE	---	1.0	20	01/13/2016 04:53
Benzene	---	0.10	20	01/13/2016 04:53
Toluene	---	0.10	20	01/13/2016 04:53
Ethylbenzene	---	0.10	20	01/13/2016 04:53
Xylenes	---	0.30	20	01/13/2016 04:53

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	110	70-130	01/13/2016 04:53

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-63-6'	1601239-032A	Soil	01/06/2016 11:00	GC7	115189

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2.5	1.0	1	01/12/2016 02:15
MTBE	---	0.050	1	01/12/2016 02:15
Benzene	---	0.0050	1	01/12/2016 02:15
Toluene	---	0.0050	1	01/12/2016 02:15
Ethylbenzene	---	0.0050	1	01/12/2016 02:15
Xylenes	---	0.015	1	01/12/2016 02:15

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	110	70-130	01/12/2016 02:15

Analyst(s): IA

Analytical Comments: d7

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-63-15'	1601239-034A	Soil	01/06/2016 11:10	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/12/2016 02:45
MTBE	---	0.050	1	01/12/2016 02:45
Benzene	---	0.0050	1	01/12/2016 02:45
Toluene	---	0.0050	1	01/12/2016 02:45
Ethylbenzene	---	0.0050	1	01/12/2016 02:45
Xylenes	---	0.015	1	01/12/2016 02:45
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	111	70-130		01/12/2016 02:45

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-64-8'	1601239-036A	Soil	01/06/2016 14:55	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	15	1.0	1	01/13/2016 19:24
MTBE	---	0.050	1	01/13/2016 19:24
Benzene	---	0.0050	1	01/13/2016 19:24
Toluene	---	0.0050	1	01/13/2016 19:24
Ethylbenzene	---	0.0050	1	01/13/2016 19:24
Xylenes	---	0.015	1	01/13/2016 19:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	103	70-130		01/13/2016 19:24

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-64-12'	1601239-037A	Soil	01/06/2016 15:05	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	12	1.0	1	01/13/2016 20:25
MTBE	---	0.050	1	01/13/2016 20:25
Benzene	---	0.0050	1	01/13/2016 20:25
Toluene	---	0.0050	1	01/13/2016 20:25
Ethylbenzene	---	0.0050	1	01/13/2016 20:25
Xylenes	---	0.015	1	01/13/2016 20:25

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	105	70-130	01/13/2016 20:25

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	330	100	100	01/13/2016 06:55
MTBE	---	5.0	100	01/13/2016 06:55
Benzene	---	0.50	100	01/13/2016 06:55
Toluene	---	0.50	100	01/13/2016 06:55
Ethylbenzene	---	0.50	100	01/13/2016 06:55
Xylenes	---	1.5	100	01/13/2016 06:55

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	107	70-130	01/13/2016 06:55

Analyst(s): IA

Analytical Comments: d7

(Cont.)



Analytical Report

Client: CKG Environmental Date Received: 1/8/16 19:53 Date Prepared: 1/8/16 Project: Owens Brockway, 3600 Alameda Ave., Oakland	WorkOrder: 1601239 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg
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Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-11'	1601239-041A	Soil	01/05/2016 13:50	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2.0	1.0	1	01/13/2016 07:26
MTBE	---	0.050	1	01/13/2016 07:26
Benzene	---	0.0050	1	01/13/2016 07:26
Toluene	---	0.0050	1	01/13/2016 07:26
Ethylbenzene	---	0.0050	1	01/13/2016 07:26
Xylenes	---	0.015	1	01/13/2016 07:26

Surrogates	REC (%)	Limits
2-Fluorotoluene	105	70-130

Analyst(s): IA Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	7100	200	200	01/12/2016 12:21
MTBE	---	10	200	01/12/2016 12:21
Benzene	---	1.0	200	01/12/2016 12:21
Toluene	---	1.0	200	01/12/2016 12:21
Ethylbenzene	---	1.0	200	01/12/2016 12:21
Xylenes	---	3.0	200	01/12/2016 12:21

Surrogates	REC (%)	Limits
2-Fluorotoluene	130	70-130

Analyst(s): IA Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 1/8/16 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-10'	1601239-046A	Soil	01/07/2016 16:15	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 03:59
MTBE	---	0.050	1	01/13/2016 03:59
Benzene	---	0.0050	1	01/13/2016 03:59
Toluene	---	0.0050	1	01/13/2016 03:59
Ethylbenzene	---	0.0050	1	01/13/2016 03:59
Xylenes	---	0.015	1	01/13/2016 03:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	102	70-130		01/13/2016 03:59

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-15'	1601239-047A	Soil	01/07/2016 16:25	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 07:56
MTBE	---	0.050	1	01/13/2016 07:56
Benzene	---	0.0050	1	01/13/2016 07:56
Toluene	---	0.0050	1	01/13/2016 07:56
Ethylbenzene	---	0.0050	1	01/13/2016 07:56
Xylenes	---	0.015	1	01/13/2016 07:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	103	70-130		01/13/2016 07:56

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-20'	1601239-048A	Soil	01/08/2016 07:50	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 19:11
MTBE	---	0.050	1	01/13/2016 19:11
Benzene	---	0.0050	1	01/13/2016 19:11
Toluene	---	0.0050	1	01/13/2016 19:11
Ethylbenzene	---	0.0050	1	01/13/2016 19:11
Xylenes	---	0.015	1	01/13/2016 19:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	104	70-130		01/13/2016 19:11

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-66-10'	1601239-050A	Soil	01/06/2016 11:45	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	28	1.0	1	01/13/2016 06:30
MTBE	---	0.050	1	01/13/2016 06:30
Benzene	---	0.0050	1	01/13/2016 06:30
Toluene	---	0.0050	1	01/13/2016 06:30
Ethylbenzene	---	0.0050	1	01/13/2016 06:30
Xylenes	---	0.015	1	01/13/2016 06:30
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/13/2016 06:30

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-66-15'	1601239-051A	Soil	01/06/2016 11:55	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	15	1.0	1	01/13/2016 20:41
MTBE	---	0.050	1	01/13/2016 20:41
Benzene	---	0.0050	1	01/13/2016 20:41
Toluene	---	0.0050	1	01/13/2016 20:41
Ethylbenzene	---	0.0050	1	01/13/2016 20:41
Xylenes	---	0.015	1	01/13/2016 20:41

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	78	70-130	01/13/2016 20:41

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-7'	1601239-053A	Soil	01/06/2016 14:10	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 16:20
MTBE	---	0.050	1	01/14/2016 16:20
Benzene	---	0.0050	1	01/14/2016 16:20
Toluene	---	0.0050	1	01/14/2016 16:20
Ethylbenzene	---	0.0050	1	01/14/2016 16:20
Xylenes	---	0.015	1	01/14/2016 16:20

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	108	70-130	01/14/2016 16:20

Analyst(s): IA



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 1/8/16 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1300	100	100	01/12/2016 13:22
MTBE	---	5.0	100	01/12/2016 13:22
Benzene	---	0.50	100	01/12/2016 13:22
Toluene	---	0.50	100	01/12/2016 13:22
Ethylbenzene	---	0.50	100	01/12/2016 13:22
Xylenes	---	1.5	100	01/12/2016 13:22
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	96	70-130		01/12/2016 13:22

Analyst(s): IA

Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-68-6'	1601239-057A	Soil	01/06/2016 09:20	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 16:51
MTBE	---	0.050	1	01/14/2016 16:51
Benzene	---	0.0050	1	01/14/2016 16:51
Toluene	---	0.0050	1	01/14/2016 16:51
Ethylbenzene	---	0.0050	1	01/14/2016 16:51
Xylenes	---	0.015	1	01/14/2016 16:51
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	117	70-130		01/14/2016 16:51

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-68-11'	1601239-058A	Soil	01/06/2016 09:30	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 21:42
MTBE	---	0.050	1	01/13/2016 21:42
Benzene	---	0.0050	1	01/13/2016 21:42
Toluene	---	0.0050	1	01/13/2016 21:42
Ethylbenzene	---	0.0050	1	01/13/2016 21:42
Xylenes	---	0.015	1	01/13/2016 21:42
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	102	70-130		01/13/2016 21:42

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	36	10	10	01/14/2016 06:13
MTBE	---	0.50	10	01/14/2016 06:13
Benzene	---	0.050	10	01/14/2016 06:13
Toluene	---	0.050	10	01/14/2016 06:13
Ethylbenzene	---	0.050	10	01/14/2016 06:13
Xylenes	---	0.15	10	01/14/2016 06:13
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	85	70-130		01/14/2016 06:13

Analyst(s): IA

Analytical Comments: d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2100	200	200	01/12/2016 18:15
MTBE	---	10	200	01/12/2016 18:15
Benzene	---	1.0	200	01/12/2016 18:15
Toluene	---	1.0	200	01/12/2016 18:15
Ethylbenzene	---	1.0	200	01/12/2016 18:15
Xylenes	---	3.0	200	01/12/2016 18:15

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	126	70-130	01/12/2016 18:15

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-6'	1601239-064A	Soil	01/07/2016 10:20	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 17:52
MTBE	---	0.050	1	01/14/2016 17:52
Benzene	---	0.0050	1	01/14/2016 17:52
Toluene	---	0.0050	1	01/14/2016 17:52
Ethylbenzene	---	0.0050	1	01/14/2016 17:52
Xylenes	---	0.015	1	01/14/2016 17:52

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	119	70-130	01/14/2016 17:52

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-10'	1601239-065A	Soil	01/07/2016 10:30	GC7	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 22:12
MTBE	---	0.050	1	01/13/2016 22:12
Benzene	---	0.0050	1	01/13/2016 22:12
Toluene	---	0.0050	1	01/13/2016 22:12
Ethylbenzene	---	0.0050	1	01/13/2016 22:12
Xylenes	---	0.015	1	01/13/2016 22:12
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/13/2016 22:12

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-15'	1601239-066A	Soil	01/07/2016 10:40	GC19	115194

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	130	20	20	01/12/2016 01:37
MTBE	---	1.0	20	01/12/2016 01:37
Benzene	---	0.10	20	01/12/2016 01:37
Toluene	---	0.10	20	01/12/2016 01:37
Ethylbenzene	---	0.10	20	01/12/2016 01:37
Xylenes	---	0.30	20	01/12/2016 01:37
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/12/2016 01:37

Analyst(s): IA

Analytical Comments: d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70A-10'	1601239-070A	Soil	01/07/2016 15:30	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 22:42
MTBE	---	0.050	1	01/13/2016 22:42
Benzene	---	0.0050	1	01/13/2016 22:42
Toluene	---	0.0050	1	01/13/2016 22:42
Ethylbenzene	---	0.0050	1	01/13/2016 22:42
Xylenes	---	0.015	1	01/13/2016 22:42
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	98	70-130		01/13/2016 22:42

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70A-15'	1601239-071A	Soil	01/07/2016 15:40	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/13/2016 23:13
MTBE	---	0.050	1	01/13/2016 23:13
Benzene	---	0.0050	1	01/13/2016 23:13
Toluene	---	0.0050	1	01/13/2016 23:13
Ethylbenzene	---	0.0050	1	01/13/2016 23:13
Xylenes	---	0.015	1	01/13/2016 23:13
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	95	70-130		01/13/2016 23:13

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-5'	1601239-073A	Soil	01/07/2016 13:50	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	6.4	1.0	1	01/13/2016 23:43
MTBE	---	0.050	1	01/13/2016 23:43
Benzene	---	0.0050	1	01/13/2016 23:43
Toluene	---	0.0050	1	01/13/2016 23:43
Ethylbenzene	---	0.0050	1	01/13/2016 23:43
Xylenes	---	0.015	1	01/13/2016 23:43

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	85	70-130	01/13/2016 23:43

Analyst(s): IA Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-10'	1601239-074A	Soil	01/07/2016 14:10	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	4.5	1.0	1	01/14/2016 00:43
MTBE	---	0.050	1	01/14/2016 00:43
Benzene	---	0.0050	1	01/14/2016 00:43
Toluene	---	0.0050	1	01/14/2016 00:43
Ethylbenzene	---	0.0050	1	01/14/2016 00:43
Xylenes	---	0.015	1	01/14/2016 00:43

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	84	70-130	01/14/2016 00:43

Analyst(s): IA Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	880	200	200	01/12/2016 18:46
MTBE	---	10	200	01/12/2016 18:46
Benzene	---	1.0	200	01/12/2016 18:46
Toluene	---	1.0	200	01/12/2016 18:46
Ethylbenzene	---	1.0	200	01/12/2016 18:46
Xylenes	---	3.0	200	01/12/2016 18:46

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	85	70-130	01/12/2016 18:46

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-5'	1601239-077A	Soil	01/08/2016 08:40	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 01:13
MTBE	---	0.050	1	01/14/2016 01:13
Benzene	---	0.0050	1	01/14/2016 01:13
Toluene	---	0.0050	1	01/14/2016 01:13
Ethylbenzene	---	0.0050	1	01/14/2016 01:13
Xylenes	---	0.015	1	01/14/2016 01:13

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	100	70-130	01/14/2016 01:13

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 1/8/16 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-10'	1601239-078A	Soil	01/08/2016 08:50	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	31	5.0	5	01/13/2016 23:57
MTBE	---	0.25	5	01/13/2016 23:57
Benzene	---	0.025	5	01/13/2016 23:57
Toluene	---	0.025	5	01/13/2016 23:57
Ethylbenzene	---	0.025	5	01/13/2016 23:57
Xylenes	---	0.075	5	01/13/2016 23:57

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	99	70-130	01/13/2016 23:57

Analyst(s): IA Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-15'	1601239-079A	Soil	01/08/2016 08:55	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	6.0	1.0	1	01/14/2016 19:54
MTBE	---	0.050	1	01/14/2016 19:54
Benzene	---	0.0050	1	01/14/2016 19:54
Toluene	---	0.0050	1	01/14/2016 19:54
Ethylbenzene	---	0.0050	1	01/14/2016 19:54
Xylenes	---	0.015	1	01/14/2016 19:54

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	101	70-130	01/14/2016 19:54

Analyst(s): IA Analytical Comments: d7



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-20'	1601239-080A	Soil	01/08/2016 09:00	GC7	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 02:43
MTBE	---	0.050	1	01/14/2016 02:43
Benzene	---	0.0050	1	01/14/2016 02:43
Toluene	---	0.0050	1	01/14/2016 02:43
Ethylbenzene	---	0.0050	1	01/14/2016 02:43
Xylenes	---	0.015	1	01/14/2016 02:43
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	104	70-130		01/14/2016 02:43

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-5'	1601239-081A	Soil	01/08/2016 09:20	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	51	10	10	01/14/2016 01:57
MTBE	---	0.50	10	01/14/2016 01:57
Benzene	---	0.050	10	01/14/2016 01:57
Toluene	---	0.050	10	01/14/2016 01:57
Ethylbenzene	---	0.050	10	01/14/2016 01:57
Xylenes	---	0.15	10	01/14/2016 01:57
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	90	70-130		01/14/2016 01:57

Analyst(s): IA

Analytical Comments: d7

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-10'	1601239-082A	Soil	01/08/2016 09:30	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 02:57
MTBE	---	0.050	1	01/14/2016 02:57
Benzene	---	0.0050	1	01/14/2016 02:57
Toluene	---	0.0050	1	01/14/2016 02:57
Ethylbenzene	---	0.0050	1	01/14/2016 02:57
Xylenes	---	0.015	1	01/14/2016 02:57
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	120	70-130		01/14/2016 02:57

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-15'	1601239-083A	Soil	01/08/2016 09:40	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 03:27
MTBE	---	0.050	1	01/14/2016 03:27
Benzene	---	0.0050	1	01/14/2016 03:27
Toluene	---	0.0050	1	01/14/2016 03:27
Ethylbenzene	---	0.0050	1	01/14/2016 03:27
Xylenes	---	0.015	1	01/14/2016 03:27
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	108	70-130		01/14/2016 03:27

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-20'	1601239-084A	Soil	01/08/2016 09:50	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 04:58
MTBE	---	0.050	1	01/14/2016 04:58
Benzene	---	0.0050	1	01/14/2016 04:58
Toluene	---	0.0050	1	01/14/2016 04:58
Ethylbenzene	---	0.0050	1	01/14/2016 04:58
Xylenes	---	0.015	1	01/14/2016 04:58
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	116	70-130		01/14/2016 04:58

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-5'	1601239-085A	Soil	01/08/2016 13:20	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 05:28
MTBE	---	0.050	1	01/14/2016 05:28
Benzene	---	0.0050	1	01/14/2016 05:28
Toluene	---	0.0050	1	01/14/2016 05:28
Ethylbenzene	---	0.0050	1	01/14/2016 05:28
Xylenes	---	0.015	1	01/14/2016 05:28
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	116	70-130		01/14/2016 05:28

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-10'	1601239-086A	Soil	01/08/2016 13:25	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 05:58
MTBE	---	0.050	1	01/14/2016 05:58
Benzene	---	0.0050	1	01/14/2016 05:58
Toluene	---	0.0050	1	01/14/2016 05:58
Ethylbenzene	---	0.0050	1	01/14/2016 05:58
Xylenes	---	0.015	1	01/14/2016 05:58
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/14/2016 05:58

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-20'	1601239-088A	Soil	01/08/2016 13:45	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	37	10	10	01/14/2016 02:27
MTBE	---	0.50	10	01/14/2016 02:27
Benzene	---	0.050	10	01/14/2016 02:27
Toluene	---	0.050	10	01/14/2016 02:27
Ethylbenzene	---	0.050	10	01/14/2016 02:27
Xylenes	---	0.15	10	01/14/2016 02:27
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	106	70-130		01/14/2016 02:27

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-5'	1601239-089A	Soil	01/08/2016 14:15	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	5.4	1.0	1	01/14/2016 06:28
MTBE	---	0.050	1	01/14/2016 06:28
Benzene	---	0.0050	1	01/14/2016 06:28
Toluene	---	0.0050	1	01/14/2016 06:28
Ethylbenzene	---	0.0050	1	01/14/2016 06:28
Xylenes	---	0.015	1	01/14/2016 06:28
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		01/14/2016 06:28

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-10'	1601239-090A	Soil	01/08/2016 14:25	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/14/2016 08:29
MTBE	---	0.050	1	01/14/2016 08:29
Benzene	---	0.0050	1	01/14/2016 08:29
Toluene	---	0.0050	1	01/14/2016 08:29
Ethylbenzene	---	0.0050	1	01/14/2016 08:29
Xylenes	---	0.015	1	01/14/2016 08:29
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	105	70-130		01/14/2016 08:29

Analyst(s): IA



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/8/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC19	115195

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	3500	100	100	01/12/2016 01:07
MTBE	---	5.0	100	01/12/2016 01:07
Benzene	---	0.50	100	01/12/2016 01:07
Toluene	---	0.50	100	01/12/2016 01:07
Ethylbenzene	---	0.50	100	01/12/2016 01:07
Xylenes	---	1.5	100	01/12/2016 01:07

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	108	70-130	01/12/2016 01:07

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 1/12/16-1/14/16	Analytical Method: SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-77-GW	1601239-003A	Water	01/04/2016 13:45	GC3	115325

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	01/14/2016 12:59
MTBE	---	5.0	1	01/14/2016 12:59
Benzene	---	0.50	1	01/14/2016 12:59
Toluene	---	0.50	1	01/14/2016 12:59
Ethylbenzene	---	0.50	1	01/14/2016 12:59
Xylenes	---	1.5	1	01/14/2016 12:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	102	70-130		01/14/2016 12:59

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-GW	1601239-028A	Water	01/05/2016 13:30	GC3	115325

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2200	250	5	01/13/2016 22:08
MTBE	---	25	5	01/13/2016 22:08
Benzene	---	2.5	5	01/13/2016 22:08
Toluene	---	2.5	5	01/13/2016 22:08
Ethylbenzene	---	2.5	5	01/13/2016 22:08
Xylenes	---	7.5	5	01/13/2016 22:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	97	70-130		01/13/2016 22:08

Analyst(s): IA

Analytical Comments: d7,d9,b6,b1

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 1/12/16-1/14/16 **Analytical Method:** SW8021B/8015Bm
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-GW	1601239-044A	Water	01/05/2016 14:40	GC3	115325

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	12,000	2500	50	01/12/2016 16:26
MTBE	---	250	50	01/12/2016 16:26
Benzene	---	25	50	01/12/2016 16:26
Toluene	---	25	50	01/12/2016 16:26
Ethylbenzene	---	25	50	01/12/2016 16:26
Xylenes	---	75	50	01/12/2016 16:26

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	87	70-130	01/12/2016 16:26

Analyst(s): IA Analytical Comments: d7,b6,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-GW	1601239-068A	Water	01/07/2016 14:45	GC3	115325

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	29,000	2500	50	01/12/2016 16:57
MTBE	---	250	50	01/12/2016 16:57
Benzene	---	25	50	01/12/2016 16:57
Toluene	---	25	50	01/12/2016 16:57
Ethylbenzene	---	25	50	01/12/2016 16:57
Xylenes	---	75	50	01/12/2016 16:57

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	93	70-130	01/12/2016 16:57

Analyst(s): IA Analytical Comments: d7,b6



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-76-3'	1601239-001A	Soil	01/04/2016 13:40	GC9b	115182
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	21		1.0	1	01/14/2016 14:48
TPH-Motor Oil (C18-C36)	33		5.0	1	01/14/2016 14:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	96		70-130		01/14/2016 14:48
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-77-5'	1601239-002A	Soil	01/04/2016 13:20	GC39A	115182
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	590		50	50	01/15/2016 12:06
TPH-Motor Oil (C18-C36)	840		250	50	01/15/2016 12:06
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	108		70-130		01/15/2016 12:06
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-78-3'	1601239-004A	Soil	01/04/2016 14:00	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	25		1.0	1	01/12/2016 07:11
TPH-Motor Oil (C18-C36)	42		5.0	1	01/12/2016 07:11
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/12/2016 07:11
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72-5'	1601239-021A	Soil	01/04/2016 15:00	GC6B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	68		50	50	01/12/2016 23:42
TPH-Motor Oil (C18-C36)	510		250	50	01/12/2016 23:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/12/2016 23:42
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72-15'	1601239-023A	Soil	01/04/2016 15:10	GC9b	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.1		1.0	1	01/14/2016 16:06
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 16:06
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	96		70-130		01/14/2016 16:06
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-10'	1601239-025A	Soil	01/05/2016 09:40	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/13/2016 09:08
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/13/2016 09:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/13/2016 09:08
<u>Analyst(s):</u> TK					

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-15'	1601239-026A	Soil	01/05/2016 10:00	GC39A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2.8		1.0	1	01/14/2016 13:03
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 13:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		01/14/2016 13:03
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-10'	1601239-029A	Soil	01/05/2016 11:15	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	230		5.0	5	01/15/2016 14:42
TPH-Motor Oil (C18-C36)	760		25	5	01/15/2016 14:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	98		70-130		01/15/2016 14:42
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC9a	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1400		100	100	01/15/2016 12:31
TPH-Motor Oil (C18-C36)	2000		500	100	01/15/2016 12:31
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	119		70-130		01/15/2016 12:31
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e2,e7		

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-63-6'	1601239-032A	Soil	01/06/2016 11:00	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	4.6		1.0	1	01/13/2016 00:02
TPH-Motor Oil (C18-C36)	5.7		5.0	1	01/13/2016 00:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/13/2016 00:02
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2,e7,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-63-15'	1601239-034A	Soil	01/06/2016 11:10	GC39A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	38		1.0	1	01/14/2016 13:42
TPH-Motor Oil (C18-C36)	43		5.0	1	01/14/2016 13:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	100		70-130		01/14/2016 13:42
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-64-8'	1601239-036A	Soil	01/06/2016 14:55	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	43		1.0	1	01/15/2016 10:48
TPH-Motor Oil (C18-C36)	230		5.0	1	01/15/2016 10:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	107		70-130		01/15/2016 10:48
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-64-12'	1601239-037A	Soil	01/06/2016 15:05	GC11B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	58		10	10	01/11/2016 15:43
TPH-Motor Oil (C18-C36)	210		50	10	01/11/2016 15:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/11/2016 15:43
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1300		20	20	01/15/2016 09:30
TPH-Motor Oil (C18-C36)	960		100	20	01/15/2016 09:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C26	109		70-130		01/15/2016 09:30
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2,e8,e7,e11/e4		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-11'	1601239-041A	Soil	01/05/2016 13:50	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	8.0		1.0	1	01/13/2016 06:32
TPH-Motor Oil (C18-C36)	5.3		5.0	1	01/13/2016 06:32
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/13/2016 06:32
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e8,e7		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC9b	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	7800	10	10	01/14/2016 18:58
TPH-Motor Oil (C18-C36)	34	5.0	1	01/14/2016 13:30
Surrogates	REC (%)	Limits		

Analyst(s): TK

Analytical Comments: e8,e11

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-10'	1601239-046A	Soil	01/07/2016 16:15	GC39B	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/13/2016 05:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/13/2016 05:14
Surrogates	REC (%)	Limits		
C9	104	70-130		01/13/2016 05:14

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-15'	1601239-047A	Soil	01/07/2016 16:25	GC39A	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/14/2016 10:26
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/14/2016 10:26
Surrogates	REC (%)	Limits		
C9	101	70-130		01/14/2016 10:26

Analyst(s): TK

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65A-20'	1601239-048A	Soil	01/08/2016 07:50	GC11B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/13/2016 03:14
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/13/2016 03:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	107		70-130		01/13/2016 03:14
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-66-10'	1601239-050A	Soil	01/06/2016 11:45	GC39A	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	66		1.0	1	01/11/2016 18:12
TPH-Motor Oil (C18-C36)	100		5.0	1	01/11/2016 18:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	100		70-130		01/11/2016 18:12
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-66-15'	1601239-051A	Soil	01/06/2016 11:55	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	79		1.0	1	01/15/2016 03:40
TPH-Motor Oil (C18-C36)	150		5.0	1	01/15/2016 03:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	106		70-130		01/15/2016 03:40
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e2,e7,e8				

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-7'	1601239-053A	Soil	01/06/2016 14:10	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	41		1.0	1	01/13/2016 01:20
TPH-Motor Oil (C18-C36)	200		5.0	1	01/13/2016 01:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/13/2016 01:20
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC39A	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2200		100	100	01/14/2016 11:06
TPH-Motor Oil (C18-C36)	1700		500	100	01/14/2016 11:06
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C26	124		70-130		01/14/2016 11:06
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-68-6'	1601239-057A	Soil	01/06/2016 09:20	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	25		1.0	1	01/14/2016 23:07
TPH-Motor Oil (C18-C36)	130		5.0	1	01/14/2016 23:07
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/14/2016 23:07
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-68-11'	1601239-058A	Soil	01/06/2016 09:30	GC39A	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2.2		1.0	1	01/14/2016 12:24
TPH-Motor Oil (C18-C36)	11		5.0	1	01/14/2016 12:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		01/14/2016 12:24
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC39A	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	4000		100	100	01/15/2016 14:03
TPH-Motor Oil (C18-C36)	8500		500	100	01/15/2016 14:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	115		70-130		01/15/2016 14:03
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC11B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2700		10	10	01/15/2016 01:51
TPH-Motor Oil (C18-C36)	1600		50	10	01/15/2016 01:51
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	112		70-130		01/15/2016 01:51
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e7,e2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-6'	1601239-064A	Soil	01/07/2016 10:20	GC39A	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	53		1.0	1	01/12/2016 07:50
TPH-Motor Oil (C18-C36)	120		5.0	1	01/12/2016 07:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		01/12/2016 07:50
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-10'	1601239-065A	Soil	01/07/2016 10:30	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	26		1.0	1	01/12/2016 20:08
TPH-Motor Oil (C18-C36)	77		5.0	1	01/12/2016 20:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/12/2016 20:08
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-15'	1601239-066A	Soil	01/07/2016 10:40	GC39B	115192
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	210		1.0	1	01/15/2016 01:43
TPH-Motor Oil (C18-C36)	110		5.0	1	01/15/2016 01:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	111		70-130		01/15/2016 01:43
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e8,e7,e11		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70A-10'	1601239-070A	Soil	01/07/2016 15:30	GC39B	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/14/2016 07:11
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/14/2016 07:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	105	70-130		01/14/2016 07:11

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70A-15'	1601239-071A	Soil	01/07/2016 15:40	GC39A	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/12/2016 03:56
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/12/2016 03:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	101	70-130		01/12/2016 03:56

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-5'	1601239-073A	Soil	01/07/2016 13:50	GC11A	115192

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	160	50	50	01/15/2016 09:52
TPH-Motor Oil (C18-C36)	420	250	50	01/15/2016 09:52
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	95	70-130		01/15/2016 09:52

Analyst(s): TK Analytical Comments: e7,e2

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-10'	1601239-074A	Soil	01/07/2016 14:10	GC39A	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	9.9		1.0	1	01/14/2016 14:21
TPH-Motor Oil (C18-C36)	25		5.0	1	01/14/2016 14:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		01/14/2016 14:21
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC11A	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	480		50	50	01/15/2016 00:42
TPH-Motor Oil (C18-C36)	400		250	50	01/15/2016 00:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	93		70-130		01/15/2016 00:42
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-5'	1601239-077A	Soil	01/08/2016 08:40	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/14/2016 08:29
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 08:29
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/14/2016 08:29
<u>Analyst(s):</u> TK					

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-10'	1601239-078A	Soil	01/08/2016 08:50	GC11B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	180		10	10	01/15/2016 06:26
TPH-Motor Oil (C18-C36)	350		50	10	01/15/2016 06:26
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		01/15/2016 06:26
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-15'	1601239-079A	Soil	01/08/2016 08:55	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	28		1.0	1	01/14/2016 09:47
TPH-Motor Oil (C18-C36)	53		5.0	1	01/14/2016 09:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	106		70-130		01/14/2016 09:47
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70B-20'	1601239-080A	Soil	01/08/2016 09:00	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	3.1		1.0	1	01/12/2016 01:59
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/12/2016 01:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/12/2016 01:59
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-5'	1601239-081A	Soil	01/08/2016 09:20	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	700		10	10	01/14/2016 20:28
TPH-Motor Oil (C18-C36)	810		50	10	01/14/2016 20:28
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		01/14/2016 20:28
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-10'	1601239-082A	Soil	01/08/2016 09:30	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/13/2016 07:50
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/13/2016 07:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/13/2016 07:50
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-15'	1601239-083A	Soil	01/08/2016 09:40	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/14/2016 11:06
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 11:06
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/14/2016 11:06
<u>Analyst(s):</u> TK					

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65B-20'	1601239-084A	Soil	01/08/2016 09:50	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/12/2016 05:53
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/12/2016 05:53
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/12/2016 05:53
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-5'	1601239-085A	Soil	01/08/2016 13:20	GC11A	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/13/2016 00:57
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/13/2016 00:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	98		70-130		01/13/2016 00:57
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-10'	1601239-086A	Soil	01/08/2016 13:25	GC9b	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/14/2016 15:27
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 15:27
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	97		70-130		01/14/2016 15:27
<u>Analyst(s):</u> TK					

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58-20'	1601239-088A	Soil	01/08/2016 13:45	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	22		1.0	1	01/12/2016 03:17
TPH-Motor Oil (C18-C36)	18		5.0	1	01/12/2016 03:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/12/2016 03:17
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2,e7,e4/e11		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-5'	1601239-089A	Soil	01/08/2016 14:15	GC39B	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/14/2016 14:59
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/14/2016 14:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		01/14/2016 14:59
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-10'	1601239-090A	Soil	01/08/2016 14:25	GC39A	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/12/2016 09:08
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/12/2016 09:08
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	100		70-130		01/12/2016 09:08
<u>Analyst(s):</u> TK					

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC11A	115193
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1100		10	10	01/11/2016 21:27
TPH-Motor Oil (C18-C36)	570		50	10	01/11/2016 21:27
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	99		70-130		01/11/2016 21:27
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e7,e2		



Analytical Report

Client: CKG Environmental
Date Received: 1/8/16 19:53
Date Prepared: 1/8/16
Project: Owens Brockway, 3600 Alameda Ave., Oakland

WorkOrder: 1601239
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-77-GW	1601239-003A	Water	01/04/2016 13:45	GC6B	115179

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	8100	1000	20	01/12/2016 20:07
TPH-Motor Oil (C18-C36)	16,000	5000	20	01/12/2016 20:07
Surrogates	REC (%)	Limits		
C9	113	70-130		01/12/2016 20:07
Analyst(s): TK		Analytical Comments: e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61-GW	1601239-028A	Water	01/05/2016 13:30	GC11A	115179

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	26,000	1000	20	01/15/2016 05:17
TPH-Motor Oil (C18-C36)	12,000	5000	20	01/15/2016 05:17
Surrogates	REC (%)	Limits		
C9	130	70-130		01/15/2016 05:17
Analyst(s): TK		Analytical Comments: e11,e3/e2,b1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-GW	1601239-044A	Water	01/05/2016 14:40	GC11B	115179

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	2,200,000	10,000	100	01/09/2016 16:47
TPH-Motor Oil (C18-C36)	56,000	50,000	100	01/09/2016 16:47
Surrogates	REC (%)	Qualifiers	Limits	
C9	1246	S	70-130	01/09/2016 16:47
Analyst(s): TK		Analytical Comments: e8/e11,e4,c2,b1		

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Analytical Report

Client: CKG Environmental
Date Received: 1/8/16 19:53
Date Prepared: 1/8/16
Project: Owens Brockway, 3600 Alameda Ave., Oakland

WorkOrder: 1601239
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70-GW	1601239-068A	Water	01/07/2016 14:45	GC11B	115179

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	4,200,000	50,000	1,000	01/11/2016 13:26
TPH-Motor Oil (C18-C36)	2,600,000	250,000	1,000	01/11/2016 13:26

Surrogates	REC (%)	Limits	Date Analyzed
C26	112	70-130	01/11/2016 13:26

Analyst(s): TK **Analytical Comments:** e11,e7,e2,b6



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-79-0.5'	1601239-005A	Soil	01/04/2016 10:40	GC11A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	3000		50	50	01/13/2016 07:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	94		70-130		01/13/2016 07:48
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-1'	1601239-007A	Soil	01/04/2016 11:00	GC39A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	560		1.0	1	01/12/2016 05:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		01/12/2016 05:14
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-5'	1601239-008A	Soil	01/04/2016 11:20	GC39B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	13		1.0	1	01/13/2016 03:56
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/13/2016 03:56
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-81-1.5'	1601239-010A	Soil	01/04/2016 11:30	GC9a	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	4700		100	100	01/15/2016 16:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	91		70-130		01/15/2016 16:24
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82A-1.5'	1601239-012A	Soil	01/04/2016 08:50	GC11A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1700		5.0	5	01/13/2016 03:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	92		70-130		01/13/2016 03:14
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-82B-2'	1601239-014A	Soil	01/04/2016 08:00	GC11B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2000		100	100	01/14/2016 21:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	111		70-130		01/14/2016 21:17
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-1'	1601239-016A	Soil	01/04/2016 08:30	GC39A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	400		1.0	1	01/13/2016 01:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		01/13/2016 01:59
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-5'	1601239-017A	Soil	01/04/2016 08:45	GC39A	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	86		1.0	1	01/12/2016 06:32
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		01/12/2016 06:32
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-84-1.5'	1601239-019A	Soil	01/04/2016 09:10	GC11B	115190
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	4700		50	50	01/13/2016 05:31
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	107		70-130		01/13/2016 05:31
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e3		



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3510C
Date Prepared: 1/8/16	Analytical Method: SW8015B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-80-GW	1601239-009A	Water	01/04/2016 11:30	GC11A	115179
<u>Analytes</u>					
TPH-Diesel (C10-C23)	720,000		50,000	1,000	01/11/2016 15:43
<u>Surrogates</u>					
C9	88		70-130		01/11/2016 15:43
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e3,e7,e8,b1			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-83-GW	1601239-018A	Water	01/04/2016 09:45	GC11A	115179
<u>Analytes</u>					
TPH-Diesel (C10-C23)	81,000		2500	50	01/09/2016 15:38
<u>Surrogates</u>					
C9	140	S	70-130		01/09/2016 15:38
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e3,e7,c2			

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122A	Analysis Date: 1/19/2016
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual
2,3,7,8-TCDD	ND	0.500	-
1,2,3,7,8-PeCDD	ND	2.50	-
1,2,3,4,7,8-HxCDD	ND	2.50	-
1,2,3,6,7,8-HxCDD	ND	2.50	-
1,2,3,7,8,9-HxCDD	ND	2.50	-
1,2,3,4,6,7,8-HpCDD	ND	2.50	-
OCDD	ND	5.00	-
2,3,7,8-TCDF	ND	0.500	-
1,2,3,7,8-PeCDF	ND	2.50	-
2,3,4,7,8-PeCDF	ND	2.50	-
1,2,3,4,7,8-HxCDF	ND	2.50	-
1,2,3,6,7,8-HxCDF	ND	2.50	-
2,3,4,6,7,8-HxCDF	ND	2.50	-
1,2,3,7,8,9-HxCDF	ND	2.50	-
1,2,3,4,6,7,8-HpCDF	ND	2.50	-
1,2,3,4,7,8,9-HpCDF	ND	2.50	-
OCDF	ND	5.00	-

Cleanup Standard

37Cl-2,3,7,8-TCDD	8.68	10	87	35 - 197
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	88.0	100	88	25 - 164
13C-1,2,3,7,8-PeCDD	97.4	100	97	25 - 181
13C-1,2,3,4,7,8-HxCDD	101	100	101	32 - 141
13C-1,2,3,6,7,8-HxCDD	89.7	100	90	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	98.6	100	99	23 - 140
13C-OCDD	215	200	107	17 - 157
13C-2,3,7,8-TCDF	83.2	100	83	24 - 169
13C-1,2,3,7,8-PeCDF	83.8	100	84	24 - 185
13C-2,3,4,7,8-PeCDF	84.7	100	85	21 - 178
13C-1,2,3,4,7,8-HxCDF	82.8	100	83	26 - 152
13C-1,2,3,6,7,8-HxCDF	77.4	100	77	26 - 123
13C-2,3,4,6,7,8-HxCDF	82.0	100	82	28 - 136
13C-1,2,3,7,8,9-HxCDF	83.3	100	83	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	85.5	100	86	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	88.6	100	89	26 - 138

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID LCS-115477	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122C	Analysis Date: 1/19/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	9.56	0.500	10	0	96	67 - 158				
1,2,3,7,8-PeCDD	49.3	2.50	50	0	99	70 - 142				
1,2,3,4,7,8-HxCDD	50.3	2.50	50	0.2	101	70 - 164				
1,2,3,6,7,8-HxCDD	49.4	2.50	50	0.26	99	76 - 134				
1,2,3,7,8,9-HxCDD	49.9	2.50	50	0.32	100	64 - 162				
1,2,3,4,6,7,8-HpCDD	51.4	2.50	50	0.46	103	70 - 140				
OCDD	89.6	5.00	100	0.68	90	78 - 144				
2,3,7,8-TCDF	9.98	0.500	10	0	100	75 - 158				
1,2,3,7,8-PeCDF	50.1	2.50	50	0.1	100	80 - 134				
2,3,4,7,8-PeCDF	51.5	2.50	50	0	103	68 - 160				
1,2,3,4,7,8-HxCDF	52.8	2.50	50	0.26	106	72 - 134				
1,2,3,6,7,8-HxCDF	56.0	2.50	50	0.32	112	84 - 130				
2,3,4,6,7,8-HxCDF	53.1	2.50	50	0.32	106	70 - 156				
1,2,3,7,8,9-HxCDF	51.4	2.50	50	0.3	103	78 - 130				
1,2,3,4,6,7,8-HpCDF	50.7	2.50	50	0.52	101	82 - 122				
1,2,3,4,7,8,9-HpCDF	55.8	2.50	50	0.4	112	78 - 138				
OCDF	90.0	5.00	100	0.44	90	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	8.76		10		88	31 - 191				
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	87.3		100		87	20 - 175				
13C-1,2,3,7,8-PeCDD	95.5		100		96	21 - 227				
13C-1,2,3,4,7,8-HxCDD	94.2		100		94	21 - 193				
13C-1,2,3,6,7,8-HxCDD	85.7		100		86	25 - 163				
13C-1,2,3,4,6,7,8-HpCDD	92.3		100		92	26 - 166				
13C-OCDD	205		200		102	13 - 199				
13C-2,3,7,8-TCDF	79.5		100		80	22 - 152				
13C-1,2,3,7,8-PeCDF	79.1		100		79	21 - 192				
13C-2,3,4,7,8-PeCDF	82.1		100		82	13 - 328				
13C-1,2,3,4,7,8-HxCDF	80.3		100		80	19 - 202				
13C-1,2,3,6,7,8-HxCDF	74.5		100		74	21 - 159				
13C-2,3,4,6,7,8-HxCDF	78.7		100		79	22 - 176				
13C-1,2,3,7,8,9-HxCDF	82.0		100		82	17 - 205				
13C-1,2,3,4,6,7,8-HpCDF	82.0		100		82	21 - 158				
13C-1,2,3,4,7,8,9-HpCDF	83.7		100		84	20 - 186				

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID 1601239-014AMS	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122B	Analysis Date: 1/20/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.2	0.500	10	0	102	67 - 158				
1,2,3,7,8-PeCDD	57.1	2.50	50	0	114	70 - 142				
1,2,3,4,7,8-HxCDD	52.0	2.50	50	0	104	70 - 164				
1,2,3,6,7,8-HxCDD	53.1	2.50	50	0	106	76 - 134				
1,2,3,7,8,9-HxCDD	51.8	2.50	50	0	104	64 - 162				
1,2,3,4,6,7,8-HpCDD	53.4	2.50	50	1.86	103	70 - 140				
OCDD	140	5.00	100	28.78	111	78 - 144				
2,3,7,8-TCDF	12.0	0.500	10	0	120	75 - 158				
1,2,3,7,8-PeCDF	53.8	2.50	50	0	108	80 - 134				
2,3,4,7,8-PeCDF	54.4	2.50	50	0	109	68 - 160				
1,2,3,4,7,8-HxCDF	54.4	2.50	50	0.84	107	72 - 134				
1,2,3,6,7,8-HxCDF	57.7	2.50	50	0	115	84 - 130				
2,3,4,6,7,8-HxCDF	56.4	2.50	50	0.24	112	70 - 156				
1,2,3,7,8,9-HxCDF	51.6	2.50	50	0	103	78 - 130				
1,2,3,4,6,7,8-HpCDF	51.7	2.50	50	0.68	102	82 - 122				
1,2,3,4,7,8,9-HpCDF	55.5	2.50	50	0	111	78 - 138				
OCDF	99.7	5.00	100	0.5	99	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	9.44		10		94	31 - 191
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	95.5		100		95	20 - 175
13C-1,2,3,7,8-PeCDD	129		100		129	21 - 227
13C-1,2,3,4,7,8-HxCDD	96.3		100		96	21 - 193
13C-1,2,3,6,7,8-HxCDD	86.5		100		87	25 - 163
13C-1,2,3,4,6,7,8-HpCDD	92.1		100		92	26 - 166
13C-OCDD	197		200		98	13 - 199
13C-2,3,7,8-TCDF	96.1		100		96	22 - 152
13C-1,2,3,7,8-PeCDF	126		100		126	21 - 192
13C-2,3,4,7,8-PeCDF	126		100		126	13 - 328
13C-1,2,3,4,7,8-HxCDF	82.9		100		83	19 - 202
13C-1,2,3,6,7,8-HxCDF	78.5		100		79	21 - 159
13C-2,3,4,6,7,8-HxCDF	79.9		100		80	22 - 176
13C-1,2,3,7,8,9-HxCDF	87.1		100		87	17 - 205
13C-1,2,3,4,6,7,8-HpCDF	86.8		100		87	21 - 158
13C-1,2,3,4,7,8,9-HpCDF	89.9		100		90	20 - 186

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID 1601239-014AMSD	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122B	Analysis Date: 1/20/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.1	0.500	10	0	101	67 - 158	10.18	0.789	20	
1,2,3,7,8-PeCDD	55.9	2.50	50	0	112	70 - 142	57.14	2.12	20	
1,2,3,4,7,8-HxCDD	53.0	2.50	50	0	106	70 - 164	52	1.98	20	
1,2,3,6,7,8-HxCDD	53.1	2.50	50	0	106	76 - 134	53.12	0.0376	20	
1,2,3,7,8,9-HxCDD	54.0	2.50	50	0	108	64 - 162	51.82	4.16	20	
1,2,3,4,6,7,8-HpCDD	52.3	2.50	50	1.86	101	70 - 140	53.36	2.08	20	
OCDD	141	5.00	100	28.78	112	78 - 144	139.46	0.800	20	
2,3,7,8-TCDF	12.3	0.500	10	0	123	75 - 158	11.96	2.97	20	
1,2,3,7,8-PeCDF	54.2	2.50	50	0	108	80 - 134	53.78	0.741	20	
2,3,4,7,8-PeCDF	54.8	2.50	50	0	110	68 - 160	54.42	0.659	20	
1,2,3,4,7,8-HxCDF	54.9	2.50	50	0.84	108	72 - 134	54.42	0.951	20	
1,2,3,6,7,8-HxCDF	57.3	2.50	50	0	115	84 - 130	57.74	0.695	20	
2,3,4,6,7,8-HxCDF	56.2	2.50	50	0.24	112	70 - 156	56.44	0.391	20	
1,2,3,7,8,9-HxCDF	52.3	2.50	50	0	105	78 - 130	51.6	1.31	20	
1,2,3,4,6,7,8-HpCDF	52.0	2.50	50	0.68	103	82 - 122	51.74	0.540	20	
1,2,3,4,7,8,9-HpCDF	53.8	2.50	50	0	108	78 - 138	55.46	3.00	20	
OCDF	100	5.00	100	0.5	100	63 - 170	99.7	0.600	20	

Cleanup Standard

37Cl-2,3,7,8-TCDD	10.2		10		102	31 - 191				
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	98.1		100		98	20 - 175				
13C-1,2,3,7,8-PeCDD	136		100		136	21 - 227				
13C-1,2,3,4,7,8-HxCDD	99.6		100		100	21 - 193				
13C-1,2,3,6,7,8-HxCDD	89.5		100		90	25 - 163				
13C-1,2,3,4,6,7,8-HpCDD	98.8		100		99	26 - 166				
13C-OCDD	216		200		108	13 - 199				
13C-2,3,7,8-TCDF	94.9		100		95	22 - 152				
13C-1,2,3,7,8-PeCDF	133		100		133	21 - 192				
13C-2,3,4,7,8-PeCDF	134		100		134	13 - 328				
13C-1,2,3,4,7,8-HxCDF	86.5		100		87	19 - 202				
13C-1,2,3,6,7,8-HxCDF	82.7		100		83	21 - 159				
13C-2,3,4,6,7,8-HxCDF	84.8		100		85	22 - 176				
13C-1,2,3,7,8,9-HxCDF	92.3		100		92	17 - 205				
13C-1,2,3,4,6,7,8-HpCDF	90.8		100		91	21 - 158				
13C-1,2,3,4,7,8,9-HpCDF	98.8		100		99	20 - 186				

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID MB-115477	TestCode: 1613_FULLL_S	Units: pg/g	Prep Date: 1/12/2016							
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122A	Analysis Date: 1/19/2016							
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	ND	0.500				-				
1,2,3,7,8-PeCDD	ND	2.50				-				
1,2,3,4,7,8-HxCDD	ND	2.50				-				
1,2,3,6,7,8-HxCDD	ND	2.50				-				
1,2,3,7,8,9-HxCDD	ND	2.50				-				
1,2,3,4,6,7,8-HpCDD	ND	2.50				-				
OCDD	ND	5.00				-				
2,3,7,8-TCDF	ND	0.500				-				
1,2,3,7,8-PeCDF	ND	2.50				-				
2,3,4,7,8-PeCDF	ND	2.50				-				
1,2,3,4,7,8-HxCDF	ND	2.50				-				
1,2,3,6,7,8-HxCDF	ND	2.50				-				
2,3,4,6,7,8-HxCDF	ND	2.50				-				
1,2,3,7,8,9-HxCDF	ND	2.50				-				
1,2,3,4,6,7,8-HpCDF	ND	2.50				-				
1,2,3,4,7,8,9-HpCDF	ND	2.50				-				
OCDF	ND	5.00				-				

Cleanup Standard

37Cl-2,3,7,8-TCDD	8.68	10	87	35 - 197
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	88.0	100	88	25 - 164
13C-1,2,3,7,8-PeCDD	97.4	100	97	25 - 181
13C-1,2,3,4,7,8-HxCDD	101	100	101	32 - 141
13C-1,2,3,6,7,8-HxCDD	89.7	100	90	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	98.6	100	99	23 - 140
13C-OCDD	215	200	107	17 - 157
13C-2,3,7,8-TCDF	83.2	100	83	24 - 169
13C-1,2,3,7,8-PeCDF	83.8	100	84	24 - 185
13C-2,3,4,7,8-PeCDF	84.7	100	85	21 - 178
13C-1,2,3,4,7,8-HxCDF	82.8	100	83	26 - 152
13C-1,2,3,6,7,8-HxCDF	77.4	100	77	26 - 123
13C-2,3,4,6,7,8-HxCDF	82.0	100	82	28 - 136
13C-1,2,3,7,8,9-HxCDF	83.3	100	83	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	85.5	100	86	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	88.6	100	89	26 - 138

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID LCS-115477	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122C	Analysis Date: 1/19/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	9.56	0.500	10	0	96	67 - 158				
1,2,3,7,8-PeCDD	49.3	2.50	50	0	99	70 - 142				
1,2,3,4,7,8-HxCDD	50.3	2.50	50	0.2	101	70 - 164				
1,2,3,6,7,8-HxCDD	49.4	2.50	50	0.26	99	76 - 134				
1,2,3,7,8,9-HxCDD	49.9	2.50	50	0.32	100	64 - 162				
1,2,3,4,6,7,8-HpCDD	51.4	2.50	50	0.46	103	70 - 140				
OCDD	89.6	5.00	100	0.68	90	78 - 144				
2,3,7,8-TCDF	9.98	0.500	10	0	100	75 - 158				
1,2,3,7,8-PeCDF	50.1	2.50	50	0.1	100	80 - 134				
2,3,4,7,8-PeCDF	51.5	2.50	50	0	103	68 - 160				
1,2,3,4,7,8-HxCDF	52.8	2.50	50	0.26	106	72 - 134				
1,2,3,6,7,8-HxCDF	56.0	2.50	50	0.32	112	84 - 130				
2,3,4,6,7,8-HxCDF	53.1	2.50	50	0.32	106	70 - 156				
1,2,3,7,8,9-HxCDF	51.4	2.50	50	0.3	103	78 - 130				
1,2,3,4,6,7,8-HpCDF	50.7	2.50	50	0.52	101	82 - 122				
1,2,3,4,7,8,9-HpCDF	55.8	2.50	50	0.4	112	78 - 138				
OCDF	90.0	5.00	100	0.44	90	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	8.76		10		88	31 - 191
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	87.3		100		87	20 - 175
13C-1,2,3,7,8-PeCDD	95.5		100		96	21 - 227
13C-1,2,3,4,7,8-HxCDD	94.2		100		94	21 - 193
13C-1,2,3,6,7,8-HxCDD	85.7		100		86	25 - 163
13C-1,2,3,4,6,7,8-HpCDD	92.3		100		92	26 - 166
13C-OCDD	205		200		102	13 - 199
13C-2,3,7,8-TCDF	79.5		100		80	22 - 152
13C-1,2,3,7,8-PeCDF	79.1		100		79	21 - 192
13C-2,3,4,7,8-PeCDF	82.1		100		82	13 - 328
13C-1,2,3,4,7,8-HxCDF	80.3		100		80	19 - 202
13C-1,2,3,6,7,8-HxCDF	74.5		100		74	21 - 159
13C-2,3,4,6,7,8-HxCDF	78.7		100		79	22 - 176
13C-1,2,3,7,8,9-HxCDF	82.0		100		82	17 - 205
13C-1,2,3,4,6,7,8-HpCDF	82.0		100		82	21 - 158
13C-1,2,3,4,7,8,9-HpCDF	83.7		100		84	20 - 186

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID 1601239-014AMS	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122B	Analysis Date: 1/20/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.2	0.500	10	0	102	67 - 158				
1,2,3,7,8-PeCDD	57.1	2.50	50	0	114	70 - 142				
1,2,3,4,7,8-HxCDD	52.0	2.50	50	0	104	70 - 164				
1,2,3,6,7,8-HxCDD	53.1	2.50	50	0	106	76 - 134				
1,2,3,7,8,9-HxCDD	51.8	2.50	50	0	104	64 - 162				
1,2,3,4,6,7,8-HpCDD	53.4	2.50	50	1.86	103	70 - 140				
OCDD	140	5.00	100	28.78	111	78 - 144				
2,3,7,8-TCDF	12.0	0.500	10	0	120	75 - 158				
1,2,3,7,8-PeCDF	53.8	2.50	50	0	108	80 - 134				
2,3,4,7,8-PeCDF	54.4	2.50	50	0	109	68 - 160				
1,2,3,4,7,8-HxCDF	54.4	2.50	50	0.84	107	72 - 134				
1,2,3,6,7,8-HxCDF	57.7	2.50	50	0	115	84 - 130				
2,3,4,6,7,8-HxCDF	56.4	2.50	50	0.24	112	70 - 156				
1,2,3,7,8,9-HxCDF	51.6	2.50	50	0	103	78 - 130				
1,2,3,4,6,7,8-HpCDF	51.7	2.50	50	0.68	102	82 - 122				
1,2,3,4,7,8,9-HpCDF	55.5	2.50	50	0	111	78 - 138				
OCDF	99.7	5.00	100	0.5	99	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	9.44		10		94	31 - 191				
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	95.5		100		2	20 - 175				S
13C-1,2,3,7,8-PeCDD	129		100		3	21 - 227				S
13C-1,2,3,4,7,8-HxCDD	96.3		100		-1	21 - 193				S
13C-1,2,3,6,7,8-HxCDD	86.5		100		-1	25 - 163				S
13C-1,2,3,4,6,7,8-HpCDD	92.1		100		0	26 - 166				S
13C-OCDD	197		200		0	13 - 199				S
13C-2,3,7,8-TCDF	96.1		100		1	22 - 152				S
13C-1,2,3,7,8-PeCDF	126		100		1	21 - 192				S
13C-2,3,4,7,8-PeCDF	126		100		3	13 - 328				S
13C-1,2,3,4,7,8-HxCDF	82.9		100		-4	19 - 202				S
13C-1,2,3,6,7,8-HxCDF	78.5		100		-1	21 - 159				S
13C-2,3,4,6,7,8-HxCDF	79.9		100		-3	22 - 176				S
13C-1,2,3,7,8,9-HxCDF	87.1		100		0	17 - 205				S
13C-1,2,3,4,6,7,8-HpCDF	86.8		100		1	21 - 158				S
13C-1,2,3,4,7,8,9-HpCDF	89.9		100		0	20 - 186				S

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115477

SampleID 1601239-014AMSD	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 1/12/2016
Batch ID: 115477	TestNo: E1613	Run ID: GC36_160122B	Analysis Date: 1/20/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.1	0.500	10	0	101	67 - 158	10.18	0.789	20	
1,2,3,7,8-PeCDD	55.9	2.50	50	0	112	70 - 142	57.14	2.12	20	
1,2,3,4,7,8-HxCDD	53.0	2.50	50	0	106	70 - 164	52	1.98	20	
1,2,3,6,7,8-HxCDD	53.1	2.50	50	0	106	76 - 134	53.12	0.0376	20	
1,2,3,7,8,9-HxCDD	54.0	2.50	50	0	108	64 - 162	51.82	4.16	20	
1,2,3,4,6,7,8-HpCDD	52.3	2.50	50	1.86	101	70 - 140	53.36	2.08	20	
OCDD	141	5.00	100	28.78	112	78 - 144	139.46	0.800	20	
2,3,7,8-TCDF	12.3	0.500	10	0	123	75 - 158	11.96	2.97	20	
1,2,3,7,8-PeCDF	54.2	2.50	50	0	108	80 - 134	53.78	0.741	20	
2,3,4,7,8-PeCDF	54.8	2.50	50	0	110	68 - 160	54.42	0.659	20	
1,2,3,4,7,8-HxCDF	54.9	2.50	50	0.84	108	72 - 134	54.42	0.951	20	
1,2,3,6,7,8-HxCDF	57.3	2.50	50	0	115	84 - 130	57.74	0.695	20	
2,3,4,6,7,8-HxCDF	56.2	2.50	50	0.24	112	70 - 156	56.44	0.391	20	
1,2,3,7,8,9-HxCDF	52.3	2.50	50	0	105	78 - 130	51.6	1.31	20	
1,2,3,4,6,7,8-HpCDF	52.0	2.50	50	0.68	103	82 - 122	51.74	0.540	20	
1,2,3,4,7,8,9-HpCDF	53.8	2.50	50	0	108	78 - 138	55.46	3.00	20	
OCDF	100	5.00	100	0.5	100	63 - 170	99.7	0.600	20	

Cleanup Standard

37Cl-2,3,7,8-TCDD	10.2		10		102	31 - 191				
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	98.1		100		5	20 - 175				S
13C-1,2,3,7,8-PeCDD	136		100		10	21 - 227				S
13C-1,2,3,4,7,8-HxCDD	99.6		100		2	21 - 193				S
13C-1,2,3,6,7,8-HxCDD	89.5		100		2	25 - 163				S
13C-1,2,3,4,6,7,8-HpCDD	98.8		100		6	26 - 166				S
13C-OCDD	216		200		10	13 - 199				S
13C-2,3,7,8-TCDF	94.9		100		0	22 - 152				S
13C-1,2,3,7,8-PeCDF	133		100		8	21 - 192				S
13C-2,3,4,7,8-PeCDF	134		100		11	13 - 328				S
13C-1,2,3,4,7,8-HxCDF	86.5		100		0	19 - 202				S
13C-1,2,3,6,7,8-HxCDF	82.7		100		3	21 - 159				S
13C-2,3,4,6,7,8-HxCDF	84.8		100		2	22 - 176				S
13C-1,2,3,7,8,9-HxCDF	92.3		100		5	17 - 205				S
13C-1,2,3,4,6,7,8-HpCDF	90.8		100		5	21 - 158				S
13C-1,2,3,4,7,8,9-HpCDF	98.8		100		8	20 - 186				S

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115694

SampleID MB-115694	TestCode: 1613_FULL_W	Units: pg/L	Prep Date: 1/19/2016
Batch ID: 115694	TestNo: E1613	Run ID: GC36_160126A	Analysis Date: 1/25/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	ND	5.00				-				
1,2,3,7,8-PeCDD	ND	25.0				-				
1,2,3,4,7,8-HxCDD	ND	25.0				-				
1,2,3,6,7,8-HxCDD	ND	25.0				-				
1,2,3,7,8,9-HxCDD	ND	25.0				-				
1,2,3,4,6,7,8-HpCDD	ND	25.0				-				
OCDD	ND	50.0				-				
2,3,7,8-TCDF	ND	5.00				-				
1,2,3,7,8-PeCDF	ND	25.0				-				
2,3,4,7,8-PeCDF	ND	25.0				-				
1,2,3,4,7,8-HxCDF	ND	25.0				-				
1,2,3,6,7,8-HxCDF	ND	25.0				-				
2,3,4,6,7,8-HxCDF	ND	25.0				-				
1,2,3,7,8,9-HxCDF	ND	25.0				-				
1,2,3,4,6,7,8-HpCDF	ND	25.0				-				
1,2,3,4,7,8,9-HpCDF	ND	25.0				-				
OCDF	ND	50.0				-				

Cleanup Standard

37Cl-2,3,7,8-TCDD	89.4		100		89	35 - 197
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	515		1000		52	25 - 164
13C-1,2,3,7,8-PeCDD	555		1000		56	25 - 181
13C-1,2,3,4,7,8-HxCDD	509		1000		51	32 - 141
13C-1,2,3,6,7,8-HxCDD	468		1000		47	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	516		1000		52	23 - 140
13C-OCDD	1060		2000		53	17 - 157
13C-2,3,7,8-TCDF	487		1000		49	24 - 169
13C-1,2,3,7,8-PeCDF	522		1000		52	24 - 185
13C-2,3,4,7,8-PeCDF	531		1000		53	21 - 178
13C-1,2,3,4,7,8-HxCDF	485		1000		48	26 - 152
13C-1,2,3,6,7,8-HxCDF	447		1000		45	26 - 123
13C-2,3,4,6,7,8-HxCDF	487		1000		49	28 - 136
13C-1,2,3,7,8,9-HxCDF	482		1000		48	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	509		1000		51	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	513		1000		51	26 - 138

CLIENT: CKG Environmental

ANALYTICAL QC SUMMARY REPORT

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

BatchID: 115694

SampleID LCS-115694	TestCode: 1613_FULL_W	Units: pg/L	Prep Date: 1/19/2016
Batch ID: 115694	TestNo: E1613	Run ID: GC36_160126D	Analysis Date: 1/25/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	107	5.00	100	0	107	67 - 158				
1,2,3,7,8-PeCDD	543	25.0	500	0	109	70 - 142				
1,2,3,4,7,8-HxCDD	539	25.0	500	2	108	70 - 164				
1,2,3,6,7,8-HxCDD	545	25.0	500	2	109	76 - 134				
1,2,3,7,8,9-HxCDD	556	25.0	500	0	111	64 - 162				
1,2,3,4,6,7,8-HpCDD	542	25.0	500	0	108	70 - 140				
OCDD	977	50.0	1000	1.4	98	78 - 144				
2,3,7,8-TCDF	117	5.00	100	0	117	75 - 158				
1,2,3,7,8-PeCDF	564	25.0	500	1.4	113	80 - 134				
2,3,4,7,8-PeCDF	581	25.0	500	1.8	116	68 - 160				
1,2,3,4,7,8-HxCDF	565	25.0	500	2.4	113	72 - 134				
1,2,3,6,7,8-HxCDF	585	25.0	500	1.6	117	84 - 130				
2,3,4,6,7,8-HxCDF	584	25.0	500	2.4	117	70 - 156				
1,2,3,7,8,9-HxCDF	571	25.0	500	0	114	78 - 130				
1,2,3,4,6,7,8-HpCDF	554	25.0	500	2.4	111	82 - 122				
1,2,3,4,7,8,9-HpCDF	591	25.0	500	2	118	78 - 138				
OCDF	963	50.0	1000	1.6	96	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	101		100		101	31 - 191				
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	891		1000		89	20 - 175				
13C-1,2,3,7,8-PeCDD	960		1000		96	21 - 227				
13C-1,2,3,4,7,8-HxCDD	950		1000		95	21 - 193				
13C-1,2,3,6,7,8-HxCDD	853		1000		85	25 - 163				
13C-1,2,3,4,6,7,8-HpCDD	928		1000		93	26 - 166				
13C-OCDD	1790		2000		89	13 - 199				
13C-2,3,7,8-TCDF	845		1000		85	22 - 152				
13C-1,2,3,7,8-PeCDF	909		1000		91	21 - 192				
13C-2,3,4,7,8-PeCDF	891		1000		89	13 - 328				
13C-1,2,3,4,7,8-HxCDF	864		1000		86	19 - 202				
13C-1,2,3,6,7,8-HxCDF	811		1000		81	21 - 159				
13C-2,3,4,6,7,8-HxCDF	853		1000		85	22 - 176				
13C-1,2,3,7,8,9-HxCDF	868		1000		87	17 - 205				
13C-1,2,3,4,6,7,8-HpCDF	893		1000		89	21 - 158				
13C-1,2,3,4,7,8,9-HpCDF	872		1000		87	20 - 186				



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	1/8/16	BatchID:	115179
Date Analyzed:	1/8/16 - 1/9/16	Extraction Method:	SW3510C
Instrument:	GC11B	Analytical Method:	SW8015B
Matrix:	Water	Unit:	µg/L
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-115179

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1220	50	1000	-	122	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	668	670		625	107	107	65-122



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	1/8/16	BatchID:	115196
Date Analyzed:	1/12/16	Extraction Method:	SW3550B
Instrument:	GC5A	Analytical Method:	SW8082
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-115196 1601239-019AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.187	0.050	0.15	-	124	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0463	0.0450		0.050	93	90	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		ND<500	NR	NR	-	NR	

Surrogate Recovery

Decachlorobiphenyl	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	1/8/16	BatchID:	115197
Date Analyzed:	1/12/16	Extraction Method:	SW3510C
Instrument:	GC20	Analytical Method:	SW8082
Matrix:	Water	Unit:	µg/L
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-115197

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.50	-	-	-	-
Aroclor1221	ND	-	0.50	-	-	-	-
Aroclor1232	ND	-	0.50	-	-	-	-
Aroclor1242	ND	-	0.50	-	-	-	-
Aroclor1248	ND	-	0.50	-	-	-	-
Aroclor1254	ND	-	0.50	-	-	-	-
Aroclor1260	ND	3.86	0.50	3.75	-	103	70-130
PCBs, total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	1.30	1.32		1.25	104	106	70-130



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115189
Date Analyzed: 1/11/16	Extraction Method: SW5030B
Instrument: GC7	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115189 1601239-031AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.540	0.40	0.60	-	90	70-130
MTBE	ND	0.0910	0.050	0.10	-	91	70-130
Benzene	ND	0.0982	0.0050	0.10	-	98	70-130
Toluene	ND	0.0948	0.0050	0.10	-	95	70-130
Ethylbenzene	ND	0.0972	0.0050	0.10	-	97	70-130
Xylenes	ND	0.311	0.015	0.30	-	104	70-130

Surrogate Recovery

2-Fluorotoluene	0.120	0.114		0.10	120	114	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		59	NR	NR	-	NR	
MTBE	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		0.38	NR	NR	-	NR	
Xylenes	NR	NR		1.5	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115194
Date Analyzed: 1/11/16	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115194 1601239-066AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.580	0.40	0.60	-	97	70-130
MTBE	ND	0.0873	0.050	0.10	-	87	70-130
Benzene	ND	0.101	0.0050	0.10	-	101	70-130
Toluene	ND	0.103	0.0050	0.10	-	103	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.339	0.015	0.30	-	113	70-130

Surrogate Recovery

2-Fluorotoluene	0.124	0.121		0.10	124	121	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND<8	NR	NR	-	NR	
MTBE	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.1	NR	NR	-	NR	
Xylenes	NR	NR		ND<0.3	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR		NR	NR	-	NR
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Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115195
Date Analyzed: 1/11/16	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115195 1601239-091AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.598	0.40	0.60	-	100	70-130
MTBE	ND	0.0939	0.050	0.10	-	94	70-130
Benzene	ND	0.105	0.0050	0.10	-	105	70-130
Toluene	ND	0.107	0.0050	0.10	-	107	70-130
Ethylbenzene	ND	0.110	0.0050	0.10	-	111	70-130
Xylenes	ND	0.351	0.015	0.30	-	117	70-130

Surrogate Recovery

2-Fluorotoluene	0.126	0.123		0.10	126	123	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		540	NR	NR	-	NR	
MTBE	NR	NR		ND<5	NR	NR	-	NR	
Benzene	NR	NR		ND<0.5	NR	NR	-	NR	
Toluene	NR	NR		1.6	NR	NR	-	NR	
Ethylbenzene	NR	NR		6.9	NR	NR	-	NR	
Xylenes	NR	NR		16	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR		NR	NR	-	NR
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Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115179
Date Analyzed: 1/8/16 - 1/9/16	Extraction Method: SW3510C
Instrument: GC11B	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115179

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1220	50	1000	-	122	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	668	670		625	107	107	65-122



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	1/12/16	BatchID:	115325
Date Analyzed:	1/12/16	Extraction Method:	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	µg/L
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-115325 1601366-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.2	40	60	-	99	70-130
MTBE	ND	10.3	5.0	10	-	103	70-130
Benzene	ND	10.3	0.50	10	-	103	70-130
Toluene	ND	10.6	0.50	10	-	106	70-130
Ethylbenzene	ND	10.7	0.50	10	-	107	70-130
Xylenes	ND	32.5	1.5	30	-	108	70-130

Surrogate Recovery

aaa-TFT	8.50	8.80		10	85	88	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.4	58.5	60	ND	102	98	70-130	4.76	20
MTBE	9.83	10.0	10	ND	98	100	70-130	1.97	20
Benzene	10.1	10.2	10	ND	101	102	70-130	0.133	20
Toluene	10.3	10.4	10	ND	103	104	70-130	0.977	20
Ethylbenzene	10.3	10.6	10	ND	103	106	70-130	3.20	20
Xylenes	31.0	32.1	30	ND	103	107	70-130	3.53	20

Surrogate Recovery

aaa-TFT	9.16	8.87	10		92	89	70-130	3.27	20
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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	1/8/16	BatchID:	115182
Date Analyzed:	1/8/16	Extraction Method:	SW3550B
Instrument:	GC6B	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-115182 1601250-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.0	1.0	40	-	100	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	27.7	25.3		25	111	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		10	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115190
Date Analyzed: 1/9/16	Extraction Method: SW3550B
Instrument: GC11B	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115190 1601239-037AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	42.6	1.0	40	-	107	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.6	26.9		25	107	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		58	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115192
Date Analyzed: 1/9/16	Extraction Method: SW3550B
Instrument: GC11A	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115192 1601239-073AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.5	1.0	40	-	101	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.1	25.3		25	101	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		160	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115193
Date Analyzed: 1/11/16	Extraction Method: SW3550B
Instrument: GC39A, GC39B	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115193 1601239-091AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	44.7	1.0	40	-	112	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.3	28.5		25	97	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		1100	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 1/8/16	BatchID: 115190
Date Analyzed: 1/9/16	Extraction Method: SW3550B
Instrument: GC11B	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-115190 1601239-037AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	42.6	1.0	40	-	107	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.6	26.9		25	107	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		58	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601239

ClientCode: CKGS

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owens Brockway, 3600 Alameda Ave.,
Oakland

Bill to:

Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

**Requested TATs: 15 days;
5 days;**

**Date Received: 01/08/2016
Date Logged: 01/08/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601239-001	B-76-3'	Soil	1/4/2016 13:40	<input type="checkbox"/>					A					A		
1601239-002	B-77-5'	Soil	1/4/2016 13:20	<input type="checkbox"/>					A					A		
1601239-003	B-77-GW	Water	1/4/2016 13:45	<input type="checkbox"/>						A					A	
1601239-004	B-78-3'	Soil	1/4/2016 14:00	<input type="checkbox"/>					A					A		
1601239-005	B-79-0.5'	Soil	1/4/2016 10:40	<input type="checkbox"/>	A		A					A				
1601239-007	B-80-1'	Soil	1/4/2016 11:00	<input type="checkbox"/>	A		A					A				
1601239-008	B-80-5'	Soil	1/4/2016 11:20	<input type="checkbox"/>	A		A					A				
1601239-009	B-80-GW	Water	1/4/2016 11:30	<input type="checkbox"/>		C		B					A			
1601239-010	B-81-1.5'	Soil	1/4/2016 11:30	<input type="checkbox"/>	A		A					A				
1601239-012	B-82A-1.5'	Soil	1/4/2016 8:50	<input type="checkbox"/>	A		A					A				
1601239-014	B-82B-2'	Soil	1/4/2016 8:00	<input type="checkbox"/>	A		A					A				
1601239-016	B-83-1'	Soil	1/4/2016 8:30	<input type="checkbox"/>	A		A					A				
1601239-017	B-83-5'	Soil	1/4/2016 8:45	<input type="checkbox"/>	A		A					A				
1601239-018	B-83-GW	Water	1/4/2016 9:45	<input type="checkbox"/>		C		B					A			
1601239-019	B-84-1.5'	Soil	1/4/2016 9:10	<input type="checkbox"/>	A		A					A				

Test Legend:

1	1613_FULL_S	2	1613_FULL_W	3	8082_PCB_S	4	8082_PCB_W
5	G-MBTX_S	6	G-MBTX_W	7	TPH(D)_S	8	TPH(D)_W
9	TPH(DMO)_S	10	TPH(DMO)_W	11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 021A, 023A, 025A, 026A, 028A, 029A, 031A, 032A, 034A, 036A, 037A, 040A, 041A, 044A, 045A, 046A, 047A, 048A, 050A, 051A, 053A, 054A, 057A, 058A, 061A, 063A, 064A, 065A, 066A, 068A, 070A, 071A, 073A, 074A,

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601239

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**Date Received: 01/08/2016
Date Logged: 01/08/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601239-021	B-72-5'	Soil	1/4/2016 15:00	<input type="checkbox"/>						A					A		
1601239-023	B-72-15'	Soil	1/4/2016 15:10	<input type="checkbox"/>						A					A		
1601239-025	B-61-10'	Soil	1/5/2016 9:40	<input type="checkbox"/>						A					A		
1601239-026	B-61-15'	Soil	1/5/2016 10:00	<input type="checkbox"/>						A					A		
1601239-028	B-61-GW	Water	1/5/2016 13:30	<input type="checkbox"/>							A					A	
1601239-029	B-62-10'	Soil	1/5/2016 11:15	<input type="checkbox"/>						A					A		
1601239-031	B-62-20'	Soil	1/5/2016 11:30	<input type="checkbox"/>						A					A		
1601239-032	B-63-6'	Soil	1/6/2016 11:00	<input type="checkbox"/>						A					A		
1601239-034	B-63-15'	Soil	1/6/2016 11:10	<input type="checkbox"/>						A					A		
1601239-036	B-64-8'	Soil	1/6/2016 14:55	<input type="checkbox"/>						A					A		
1601239-037	B-64-12'	Soil	1/6/2016 15:05	<input type="checkbox"/>						A					A		
1601239-040	B-65-4'	Soil	1/5/2016 13:40	<input type="checkbox"/>						A					A		
1601239-041	B-65-11'	Soil	1/5/2016 13:50	<input type="checkbox"/>						A					A		
1601239-044	B-65-GW	Water	1/5/2016 14:40	<input type="checkbox"/>							A					A	
1601239-045	B-65-23'	Soil	1/5/2016 14:15	<input type="checkbox"/>						A					A		

Test Legend:

1	1613_FULL_S	2	1613_FULL_W	3	8082_PCB_S	4	8082_PCB_W
5	G-MBTX_S	6	G-MBTX_W	7	TPH(D)_S	8	TPH(D)_W
9	TPH(DMO)_S	10	TPH(DMO)_W	11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 021A, 023A, 025A, 026A, 028A, 029A, 031A, 032A, 034A, 036A, 037A, 040A, 041A, 044A, 045A, 046A, 047A, 048A, 050A, 051A, 053A, 054A, 057A, 058A, 061A, 063A, 064A, 065A, 066A, 068A, 070A, 071A, 073A, 074A,

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Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601239-046	B-65A-10'	Soil	1/7/2016 16:15	<input type="checkbox"/>						A					A		
1601239-047	B-65A-15'	Soil	1/7/2016 16:25	<input type="checkbox"/>						A					A		
1601239-048	B-65A-20'	Soil	1/8/2016 7:50	<input type="checkbox"/>						A					A		
1601239-050	B-66-10'	Soil	1/6/2016 11:45	<input type="checkbox"/>						A					A		
1601239-051	B-66-15'	Soil	1/6/2016 11:55	<input type="checkbox"/>						A					A		
1601239-053	B-67-7'	Soil	1/6/2016 14:10	<input type="checkbox"/>						A					A		
1601239-054	B-67-11'	Soil	1/6/2016 14:15	<input type="checkbox"/>						A					A		
1601239-057	B-68-6'	Soil	1/6/2016 9:20	<input type="checkbox"/>						A					A		
1601239-058	B-68-11'	Soil	1/6/2016 9:30	<input type="checkbox"/>						A					A		
1601239-061	B-69-10'	Soil	1/5/2016 15:20	<input type="checkbox"/>						A					A		
1601239-063	B-69-20'	Soil	1/5/2016 15:30	<input type="checkbox"/>						A					A		
1601239-064	B-70-6'	Soil	1/7/2016 10:20	<input type="checkbox"/>						A					A		
1601239-065	B-70-10'	Soil	1/7/2016 10:30	<input type="checkbox"/>						A					A		
1601239-066	B-70-15'	Soil	1/7/2016 10:40	<input type="checkbox"/>						A					A		
1601239-068	B-70-GW	Water	1/7/2016 14:45	<input type="checkbox"/>							A					A	

Test Legend:

1	1613_FULL_S	2	1613_FULL_W	3	8082_PCB_S	4	8082_PCB_W
5	G-MBTX_S	6	G-MBTX_W	7	TPH(D)_S	8	TPH(D)_W
9	TPH(DMO)_S	10	TPH(DMO)_W	11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 021A, 023A, 025A, 026A, 028A, 029A, 031A, 032A, 034A, 036A, 037A, 040A, 041A, 044A, 045A, 046A, 047A, 048A, 050A, 051A, 053A, 054A, 057A, 058A, 061A, 063A, 064A, 065A, 066A, 068A, 070A, 071A, 073A, 074A,

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CHAIN-OF-CUSTODY RECORD

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Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601239-070	B-70A-10'	Soil	1/7/2016 15:30	<input type="checkbox"/>						A					A		
1601239-071	B-70A-15'	Soil	1/7/2016 15:40	<input type="checkbox"/>						A					A		
1601239-073	B-71-5'	Soil	1/7/2016 13:50	<input type="checkbox"/>						A					A		
1601239-074	B-71-10'	Soil	1/7/2016 14:10	<input type="checkbox"/>						A					A		
1601239-076	B-71-20'	Soil	1/7/2016 14:30	<input type="checkbox"/>						A					A		
1601239-077	B-70B-5'	Soil	1/8/2016 8:40	<input type="checkbox"/>						A					A		
1601239-078	B-70B-10'	Soil	1/8/2016 8:50	<input type="checkbox"/>						A					A		
1601239-079	B-70B-15'	Soil	1/8/2016 8:55	<input type="checkbox"/>						A					A		
1601239-080	B-70B-20'	Soil	1/8/2016 9:00	<input type="checkbox"/>						A					A		
1601239-081	B-65B-5'	Soil	1/8/2016 9:20	<input type="checkbox"/>						A					A		
1601239-082	B-65B-10'	Soil	1/8/2016 9:30	<input type="checkbox"/>						A					A		
1601239-083	B-65B-15'	Soil	1/8/2016 9:40	<input type="checkbox"/>						A					A		
1601239-084	B-65B-20'	Soil	1/8/2016 9:50	<input type="checkbox"/>						A					A		
1601239-085	B-58-5'	Soil	1/8/2016 13:20	<input type="checkbox"/>						A					A		
1601239-086	B-58-10'	Soil	1/8/2016 13:25	<input type="checkbox"/>						A					A		

Test Legend:

1	1613_FULL_S	2	1613_FULL_W	3	8082_PCB_S	4	8082_PCB_W
5	G-MBTX_S	6	G-MBTX_W	7	TPH(D)_S	8	TPH(D)_W
9	TPH(DMO)_S	10	TPH(DMO)_W	11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 021A, 023A, 025A, 026A, 028A, 029A, 031A, 032A, 034A, 036A, 037A, 040A, 041A, 044A, 045A, 046A, 047A, 048A, 050A, 051A, 053A, 054A, 057A, 058A, 061A, 063A, 064A, 065A, 066A, 068A, 070A, 071A, 073A, 074A,

Prepared by: Agustina Venegas

Comments:

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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601239

ClientCode: CKGS

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**Requested TATs: 15 days;
5 days;**

Date Received: 01/08/2016

Date Logged: 01/08/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601239-088	B-58-20'	Soil	1/8/2016 13:45	<input type="checkbox"/>					A					A		
1601239-089	B-60A-5'	Soil	1/8/2016 14:15	<input type="checkbox"/>					A					A		
1601239-090	B-60A-10'	Soil	1/8/2016 14:25	<input type="checkbox"/>					A					A		
1601239-091	B-60A-15'	Soil	1/8/2016 14:45	<input type="checkbox"/>					A					A		

Test Legend:

1	1613_FULL_S	2	1613_FULL_W	3	8082_PCB_S	4	8082_PCB_W
5	G-MBTX_S	6	G-MBTX_W	7	TPH(D)_S	8	TPH(D)_W
9	TPH(DMO)_S	10	TPH(DMO)_W	11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 021A, 023A, 025A, 026A, 028A, 029A, 031A, 032A, 034A, 036A, 037A, 040A, 041A, 044A, 045A, 046A, 047A, 048A, 050A, 051A, 053A, 054A, 057A, 058A, 061A, 063A, 064A, 065A, 066A, 068A, 070A, 071A, 073A, 074A,

Prepared by: Agustina Venegas

Comments:

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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-001A	B-76-3'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 13:40	5 days		<input type="checkbox"/>	
1601239-002A	B-77-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 13:20	5 days		<input type="checkbox"/>	
1601239-003A	B-77-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/4/2016 13:45	5 days	Present	<input type="checkbox"/>	
1601239-004A	B-78-3'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 14:00	5 days		<input type="checkbox"/>	
1601239-005A	B-79-0.5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 10:40	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-006A	B-79-3'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 10:55			<input checked="" type="checkbox"/>	
1601239-007A	B-80-1'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 11:00	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-008A	B-80-5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 11:20	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-009A	B-80-GW	Water	SW8015B (Diesel)	2	VOA w/ HCl	<input type="checkbox"/>	1/4/2016 11:30	5 days	1%+	<input type="checkbox"/>	
1601239-009B	B-80-GW	Water	SW8082 (PCBs Only)	2	aVOA	<input type="checkbox"/>	1/4/2016 11:30	5 days	1%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-009C	B-80-GW	Water	E1613 (PCDDs & PCDFs)	2	1LA	<input type="checkbox"/>	1/4/2016 11:30	15 days	1%+	<input type="checkbox"/>	
1601239-010A	B-81-1.5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 11:30	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-011A	B-81-3'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 11:45			<input checked="" type="checkbox"/>	
1601239-012A	B-82A-1.5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 8:50	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-013A	B-82A-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 9:00			<input checked="" type="checkbox"/>	
1601239-014A	B-82B-2'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 8:00	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-015A	B-82B-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 8:20			<input checked="" type="checkbox"/>	
1601239-016A	B-83-1'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 8:30	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	

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Work Order: 1601239

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Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

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 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-017A	B-83-5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 8:45	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-018A	B-83-GW	Water	SW8015B (Diesel)	2	VOA w/ HCl	<input type="checkbox"/>	1/4/2016 9:45	5 days	Present	<input type="checkbox"/>	
1601239-018B	B-83-GW	Water	SW8082 (PCBs Only)	2	aVOA	<input type="checkbox"/>	1/4/2016 9:45	5 days	Present	<input type="checkbox"/>	
1601239-018C	B-83-GW	Water	E1613 (PCDDs & PCDFs)	2	1LA	<input type="checkbox"/>	1/4/2016 9:45	15 days	Present	<input type="checkbox"/>	
1601239-019A	B-84-1.5'	Soil	SW8015B (Diesel)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 9:10	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)			<input type="checkbox"/>		15 days		<input type="checkbox"/>	
1601239-020A	B-84-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 9:15			<input checked="" type="checkbox"/>	
1601239-021A	B-72-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 15:00	5 days		<input type="checkbox"/>	
1601239-022A	B-72-12'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/4/2016 15:05			<input checked="" type="checkbox"/>	
1601239-023A	B-72-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/4/2016 15:10	5 days		<input type="checkbox"/>	
1601239-024A	B-61-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 9:30			<input checked="" type="checkbox"/>	
1601239-025A	B-61-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 9:40	5 days		<input type="checkbox"/>	
1601239-026A	B-61-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 10:00	5 days		<input type="checkbox"/>	

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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax
 WriteOn
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 HardCopy
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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-027A	B-61-19'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 10:05			<input checked="" type="checkbox"/>	
1601239-028A	B-61-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/5/2016 13:30	5 days	1%+	<input type="checkbox"/>	
1601239-029A	B-62-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 11:15	5 days		<input type="checkbox"/>	
1601239-030A	B-62-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 11:20			<input checked="" type="checkbox"/>	
1601239-031A	B-62-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 11:30	5 days		<input type="checkbox"/>	
1601239-032A	B-63-6'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:00	5 days		<input type="checkbox"/>	
1601239-033A	B-63-11'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:05			<input checked="" type="checkbox"/>	
1601239-034A	B-63-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:10	5 days		<input type="checkbox"/>	
1601239-035A	B-63-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:20			<input checked="" type="checkbox"/>	
1601239-036A	B-64-8'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 14:55	5 days		<input type="checkbox"/>	
1601239-037A	B-64-12'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 15:05	5 days		<input type="checkbox"/>	
1601239-038A	B-64-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 15:15			<input checked="" type="checkbox"/>	
1601239-039A	B-64-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 15:20			<input checked="" type="checkbox"/>	
1601239-040A	B-65-4'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 13:40	5 days		<input type="checkbox"/>	
1601239-041A	B-65-11'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 13:50	5 days		<input type="checkbox"/>	
1601239-042A	B-65-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 13:55			<input checked="" type="checkbox"/>	

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Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-043A	B-65-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 14:00			<input checked="" type="checkbox"/>	
1601239-044A	B-65-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/5/2016 14:40	5 days	4%+	<input type="checkbox"/>	
1601239-045A	B-65-23'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 14:15	5 days		<input type="checkbox"/>	
1601239-046A	B-65A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 16:15	5 days		<input type="checkbox"/>	
1601239-047A	B-65A-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 16:25	5 days		<input type="checkbox"/>	
1601239-048A	B-65A-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 7:50	5 days		<input type="checkbox"/>	
1601239-049A	B-66-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:35			<input checked="" type="checkbox"/>	
1601239-050A	B-66-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:45	5 days		<input type="checkbox"/>	
1601239-051A	B-66-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 11:55	5 days		<input type="checkbox"/>	
1601239-052A	B-66-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 12:05			<input checked="" type="checkbox"/>	
1601239-053A	B-67-7'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 14:10	5 days		<input type="checkbox"/>	
1601239-054A	B-67-11'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 14:15	5 days		<input type="checkbox"/>	
1601239-055A	B-67-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 14:25			<input checked="" type="checkbox"/>	
1601239-056A	B-67-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 14:35			<input checked="" type="checkbox"/>	
1601239-057A	B-68-6'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 9:20	5 days		<input type="checkbox"/>	
1601239-058A	B-68-11'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/6/2016 9:30	5 days		<input type="checkbox"/>	

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Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-059A	B-68-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 9:40			<input checked="" type="checkbox"/>	
1601239-060A	B-68-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/6/2016 9:50			<input checked="" type="checkbox"/>	
1601239-061A	B-69-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 15:20	5 days		<input type="checkbox"/>	
1601239-062A	B-69-14'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/5/2016 15:25			<input checked="" type="checkbox"/>	
1601239-063A	B-69-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/5/2016 15:30	5 days		<input type="checkbox"/>	
1601239-064A	B-70-6'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 10:20	5 days		<input type="checkbox"/>	
1601239-065A	B-70-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 10:30	5 days		<input type="checkbox"/>	
1601239-066A	B-70-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 10:40	5 days		<input type="checkbox"/>	
1601239-067A	B-70-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/7/2016 10:50			<input checked="" type="checkbox"/>	
1601239-068A	B-70-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/7/2016 14:45	5 days	Present	<input type="checkbox"/>	
1601239-069A	B-70A-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/7/2016 15:20			<input checked="" type="checkbox"/>	
1601239-070A	B-70A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 15:30	5 days		<input type="checkbox"/>	
1601239-071A	B-70A-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 15:40	5 days		<input type="checkbox"/>	
1601239-072A	B-70A-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/7/2016 15:50			<input checked="" type="checkbox"/>	
1601239-073A	B-71-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 13:50	5 days		<input type="checkbox"/>	
1601239-074A	B-71-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 14:10	5 days		<input type="checkbox"/>	

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-075A	B-71-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/7/2016 14:20			<input checked="" type="checkbox"/>	
1601239-076A	B-71-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/7/2016 14:30	5 days		<input type="checkbox"/>	
1601239-077A	B-70B-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 8:40	5 days		<input type="checkbox"/>	
1601239-078A	B-70B-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 8:50	5 days		<input type="checkbox"/>	
1601239-079A	B-70B-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 8:55	5 days		<input type="checkbox"/>	
1601239-080A	B-70B-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 9:00	5 days		<input type="checkbox"/>	
1601239-081A	B-65B-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 9:20	5 days		<input type="checkbox"/>	
1601239-082A	B-65B-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 9:30	5 days		<input type="checkbox"/>	
1601239-083A	B-65B-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 9:40	5 days		<input type="checkbox"/>	
1601239-084A	B-65B-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 9:50	5 days		<input type="checkbox"/>	
1601239-085A	B-58-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 13:20	5 days		<input type="checkbox"/>	
1601239-086A	B-58-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 13:25	5 days		<input type="checkbox"/>	
1601239-087A	B-58-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/8/2016 13:35			<input checked="" type="checkbox"/>	
1601239-088A	B-58-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 13:45	5 days		<input type="checkbox"/>	
1601239-089A	B-60A-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 14:15	5 days		<input type="checkbox"/>	
1601239-090A	B-60A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 14:25	5 days		<input type="checkbox"/>	

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Date Logged: 1/8/2016

Comments:

Contact's Email: ckennedy@geologist.com

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-091A	B-60A-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/8/2016 14:45	5 days		<input type="checkbox"/>	
1601239-092A	B-60A-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/8/2016 14:55			<input checked="" type="checkbox"/>	

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1401239



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
Company: CKG Environmental
P.O. Box 246 St. Helena, CA 94574
Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
Project #: _____ Project Name: Owen's Braceway
Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 (8082 PCBs) Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH mo (8015)	Dioxins and Furans (1613)	HOLD												
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																			Other											
B-76-3'	B-76	1/4/16	1340	1					X					X	X																													
B-77-5'	B-77		1320	↓					↓					X	X																													
B-77-GW	↓		1345	4	X									X	X																													
B-78-3'	B-78		1400	1					X					X	X																													
B-79-0.5'	B-79		1040	↓					↓					X	X																													
B-79-3'	↓		1055	↓					↓					X	X																													
B-80-1'	B-80		1100	↓					↓					X	X																													
B-80-5'	↓		1120	↓					↓					X	X																													
B-80-GW	↓		1130	6	X									X	X																													
B-81-1.5'	B-81		1130	↓					X					X	X																													
B-81-3'	↓	↓	1145	↓					↓					X	X																													

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/T* A.S. COMMENTS: page 1

GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < 2 _____



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
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 Company: CKG Environmental
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 Project #: _____ Project Name: Owens Backway
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			Analysis Request																							
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other	BTEX & TPH as Gas (8021) (8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNA's)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPHnd (8015)	Dioxins and Furans (1613)						
B-82A-1.5'	B-82A	1/4/16	850	1					X							X																						
B-82A-5'	↓		900	1												X																						
B-82B-2'	B-82B		800	1												X																						
B-82B-5'	↓		820	1												X																						
B-83-1'	B-83		830	1												X																						
B-83-5'	↓		845	↓												X																						
B-83-GW	↓		945	6	X											X																						
B-84-1.5'	B-84		910	1												X																						
B-84-5'	↓		915	↓												X																						
B-72-5'	B-72		1500	↓												X																						
B-72-12'	↓	↓	1505	↓												X																						

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/I*
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH-2 _____

COMMENTS: page 2



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental

Company: CKG Environmental
 PO Box 246 St. Helena, CA 94574

Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com

Project #: Project Name: Owens Brickway

Project Location: 3600 Alameda Ave, Orland Purchase Order#

Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			BTEX & TPH as Gas (801) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH MO (8015)	HOLD							
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO3																		Other						
B-72-15'	B-72	1/4/16	1510	1												X	X														X							
B-61-5'	B-61	1/5/16	930	1												X	X															X						
B-61-10'			940	1												X	X														X							
B-61-15'			1000	1												X	X														X							
B-61-19'			1005	1												X	X														X							
B-61-GW			1330	4	X											X	X													X								
B-62-10'	B-62		1115	1												X	X														X							
B-62-15'			1120	1												X	X														X							
B-62-20'			1130	1												X	X														X							
B-63-6'	B-63	1/6/16	1100	1												X	X														X							
B-63-11'			1105	1												X	X														X							

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: [Signature]	Date: 1/8/16	Time: 1630	Received By: [Signature]	COMMENTS: page 3 ICE/P _____ GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____ VOAS O&G METALS OTHER HAZARDOUS: PRESERVATION _____ pH-2 _____
Relinquished By:	Date:	Time:	Received By:	
Relinquished By:	Date:	Time:	Received By:	



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1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mccampbell.com / main@mccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
PO Box 246 St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owens Brackway
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			Analysis Request													HOLD										
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other	BTEX & PH as Gas (8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's, Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / FNAAs)	CAM 17 Metals (200.8 / 6020)**	LUFT 5 Metals (300.8 / 6620)**		Metals (200.8 / 6020)**	Lab to Filter sample for Dissolved metals analysis	TPH _{me} (8015)							
B-63-15'	B-63	1/6/16	1110	1						X						X	X													X	X	X	X	X	X	X	X		X
B-63-20'	↓	↓	1120													X	X													X	X	X	X	X	X	X	X		X
B-64-8'	B-64		1455													X	X													X	X	X	X	X	X	X	X		
B-64-12'	↓		1505													X	X													X	X	X	X	X	X	X	X		
B-64-15'	↓		1515													X	X													X	X	X	X	X	X	X	X		
B-64-20'	↓	↓	1520													X	X													X	X	X	X	X	X	X	X		
B-65-4'	B-65	1/5/16	1340													X	X													X	X	X	X	X	X	X	X		
B-65-11'	↓		1350													X	X													X	X	X	X	X	X	X	X		
B-65-15'	↓		1355													X	X													X	X	X	X	X	X	X	X		
B-65-20'	↓		1400	✓												X	X													X	X	X	X	X	X	X	X		
B-65-GW	↓	↓	1440	4	X											X	X													X	X	X	X	X	X	X	X		

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	ICE# _____	COMMENTS: <u>page 4</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	GOOD CONDITION _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____	

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < 2 _____



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY

GeoTracker EDF PDF EDD Write On (DW) EQUS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
PO Box 246, St. Helena, CA 94574
 Tele: (707) 967-8086 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owens Brackway
 Project Location: 3600 Alameda Ave, Cotland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED				BTEX & TPH as Gas (802) (8015) (M/TBE)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 / 838F)	Total Petroleum Hydrocarbons (418.1)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors / Congeners	EPA 807 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPHmp (8015)	HOLD	
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																		
		B-65-23'	B-65		1/5/16	1415	1						X																				
B-65A-10'	B-65A	1/7/16	1615	1											X	X										X							
B-65A-15'			1625												X	X										X							
B-65A-20'			750												X	X										X							
B-66-5'	B-66	1/6/16	1135												X	X										X							
B-66-10'			1145												X	X										X							
B-66-15'			1155												X	X										X							
B-66-20'			1205												X	X										X							
B-67-7'	B-67		1410												X	X										X							
B-67-11'			1415												X	X										X							
B-67-15'			1425												X	X										X							

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < 2 _____

COMMENTS: page 5



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental

Company: CKG Environmental

PO Box 246, St. Helena, CA 94574

Tele: (707) 967-8080

E-Mail: ckennedy@geokgsst.com

Project #:

Project Name: Quinn Brockway

Project Location: 3600 Alameda Ave., Oakland

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			E/8&F	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)**	LUFT 5 Metals (200.8 / 6020)**	Metals (200.8 / 6020)**	Lab to Filter sample for Dissolved metals analysis	TPH mg (8015)	HOLD		
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																Other	
B-67-20'	B-67	1/6/16	1435	1						X					X	X														X	
B-68-6'	B-68		920	1											X	X													X		
B-68-11'			930	1											X	X												X			
B-68-15'			940	1											X	X												X			
B-68-20'			950	1											X	X												X			
B-69-10'	B-69	1/5/16	1520	1											X	X												X			
B-69-14'			1525	1											X	X												X			
B-69-20'			1530	1											X	X												X			
B-70-6'	B-70	1/7/16	1020	1											X	X												X			
B-70-10'			1030	1											X	X												X			
B-70-15'			1040	1											X	X												X			

Analysis Request																						
BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/8&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)**	LUFT 5 Metals (200.8 / 6020)**	Metals (200.8 / 6020)**	Lab to Filter sample for Dissolved metals analysis	TPH mg (8015)	HOLD						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						
X	X														X	X						

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date: 1/8/16	Time: 1630	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/1" _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < _____

COMMENTS: page 6



McCampbell Analytical, Inc.

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 www.mccampbell.com / main@mccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY

GeoTracker EDF PDF EDD Write On (DW) EQiS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
PO Box 246, St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: ckennedy@geologist.com
 Project #: _____ Project Name: Onyx Parkway
 Project Location: 3600 Alameda Ave., Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			BTEX & TPH as Gas (801, 8015) MTBE TPH as Diesel (8015) Total Petroleum Oil & Grease (1664 / 5520 E/B&F) Total Petroleum Hydrocarbons (418.1) EPA 505/608 / 8081 (CI Pesticides) EPA 608 / 8082 PCB's; A roctors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515 / 8151 (Acidic CI Herbicides) EPA 524.2 / 624 / 8260 (VOCs) EPA 525.2 / 625 / 8270 (SVOCs) EPA 8270 SIM / 8310 (PAHs / PNAAs) CAM 17 Metals (200.8 / 6020)*** LUFT 5 Metals (200.8 / 6020)*** Metals (200.8 / 6020)*** Lab to Filter sample for Dissolved metals analysis	TPHmo (8015)									
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	FINO ₃	Other											
B-70-20'	B-70	1/7/16	1050	1																						
B-70-GW	↓		1445	4	X																					
B-70A-5'	B-70A		1520	1																						
B-70A-10'	↓		1530	1																						
B-70A-15'	↓		1540	1																						
B-70A-20'	↓		1550	1																						
B-71-5'	B-71		1350	1																						
B-71-10'	↓		1410	1																						
B-71-15'	↓		1420	1																						
B-71-20'	↓		1430	1																						
B-70B-5'	B-70B	1/8/16	840	1																						

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>630</u>	Received By: <u>[Signature]</u>	ICE/GOOD CONDITION <input type="checkbox"/>	COMMENTS: <u>page 7</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	HEAD SPACE ABSENT <input type="checkbox"/>	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	DECHLORINATED IN LAB <input type="checkbox"/>	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	APPROPRIATE CONTAINERS <input type="checkbox"/>	
				PRESERVED IN LAB <input type="checkbox"/>	HAZARDOUS: _____
<p>VOAS O&G METALS OTHER IIAZARDOUS: _____</p> <p>PRESERVATION _____ pH < 2 _____</p>					



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 www.mccampbell.com / main@mccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY 10 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS
 Effluent Sample Requiring "J" Tag UST Clean Up Fund Project Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
PO Box 246, 5th Highway, CA 94574
 Tele: (707) 967-8080 E-Mail: ckemedy@geojst.com
 Project #: _____ Project Name: Owens Brockway
 Project Location: 3600 Alameda Ave, Oakland Purchase Order#: _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX											METHOD PRESERVED	Analysis Request																							
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO3	Other	BTEX & PH as Gas (8021/8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5570) E/B&F	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8092 PCB's; Aroclors / Congeners	EPA 507/8141 (NP Pesticides)	EPA 515/8151 (Acidic CI Herbicides)	EPA 524.2/624/8260 (VOCs)	EPA 525.2/625/8270 (SVOCs)	EPA 8270 SIM/8310 (PAHs/PNAs)	CAM 17 Metals (200.8/6020)***	LUFF 5 Metals (200.8/6020)***	Metals (200.8/6020)***	Lab to Filter sample for Dissolved metals analysis										
B-60A-5'	B-60A	1/8/16	1415	1						X																														
B-60A-10'	↓	↓	1425	↓																																				
B-60A-15'	↓	1445	↓	↓																																				
B-60A-20'	↓	1455	↓	↓																																				

***MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.
 *** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	COMMENTS: ICE/1" _____ GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____ VOAS _____ O&G _____ METALS _____ OTHER _____ HAZARDOUS: _____ PRESERVATION _____ pH < 2 _____
Relinquished By:	Date:	Time:	Received By:	
Relinquished By:	Date:	Time:	Received By:	

page 9

(707) 967-8080

TPH (8015)



Sample Receipt Checklist

Client Name: **CKG Environmental**
 Project Name: **Owens Brockway, 3600 Alameda Ave., Oakland**
 WorkOrder №: **1601239** Matrix: Soil/Water
 Carrier: Client Drop-In

Date and Time Received: **1/8/2016 16:30**
 Date Logged: **1/8/2016**
 Received by: **Briana Cutino**
 Logged by: **Agustina Venegas**

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 4.5°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601239 A

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owens Brockway, 3600 Alameda Ave., Oakland

Project Received: 01/08/2016

Analytical Report reviewed & approved for release on 02/22/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave., Oakland
WorkOrder: 1601239

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway, 3600 Alameda Ave., Oakland
WorkOrder: 1601239

Analytical Qualifiers

H	samples were analyzed out of holding time
S	Surrogate spike recovery outside accepted recovery limits
M	Estimated Maximum Possible Concentration
a1	sample diluted due to matrix interference
a2	sample diluted due to cluttered chromatogram
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c2	surrogate recovery outside of the control limits due to matrix interference.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c7	Surrogate value diluted out of range
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e3/e2	aged diesel is significant; and/or diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e4/e11	gasoline range compounds are significant.; and/or stoddard solvent/mineral spirit (?)
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e8/e11	kerosene/kerosene range/jet fuel range; and/or stoddard solvent/mineral spirit (?)
e11/e4	stoddard solvent/mineral spirit (?); and/or gasoline range compounds are significant.
e11	stoddard solvent/mineral spirit (?)
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F8	MS/MSD recovery and/or RPD was out of acceptance criteria; PDS validated the prep batch. If PDS recovery was out of acceptance criteria, DLT validated the prep batch.
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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/12/16 **Analytical Method:** SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 14:15
Aroclor1221	ND	0.050	1	02/17/2016 14:15
Aroclor1232	ND	0.050	1	02/17/2016 14:15
Aroclor1242	ND	0.050	1	02/17/2016 14:15
Aroclor1248	ND	0.050	1	02/17/2016 14:15
Aroclor1254	ND	0.050	1	02/17/2016 14:15
Aroclor1260	ND	0.050	1	02/17/2016 14:15
PCBs, total	ND	0.050	1	02/17/2016 14:15

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	72	70-130	02/17/2016 14:15

Analyst(s): CK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 19:44
Aroclor1221	ND	0.050	1	02/17/2016 19:44
Aroclor1232	ND	0.050	1	02/17/2016 19:44
Aroclor1242	ND	0.050	1	02/17/2016 19:44
Aroclor1248	ND	0.050	1	02/17/2016 19:44
Aroclor1254	ND	0.050	1	02/17/2016 19:44
Aroclor1260	ND	0.050	1	02/17/2016 19:44
PCBs, total	ND	0.050	1	02/17/2016 19:44

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	88	70-130	02/17/2016 19:44

Analyst(s): SS

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/12/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/18/2016 22:55
Aroclor1221	ND	0.050	1	02/18/2016 22:55
Aroclor1232	ND	0.050	1	02/18/2016 22:55
Aroclor1242	ND	0.050	1	02/18/2016 22:55
Aroclor1248	ND	0.050	1	02/18/2016 22:55
Aroclor1254	ND	0.050	1	02/18/2016 22:55
Aroclor1260	ND	0.050	1	02/18/2016 22:55
PCBs, total	ND	0.050	1	02/18/2016 22:55

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	109	70-130	02/18/2016 22:55

Analyst(s): SS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 12:32
Aroclor1221	ND	0.050	1	02/17/2016 12:32
Aroclor1232	ND	0.050	1	02/17/2016 12:32
Aroclor1242	ND	0.050	1	02/17/2016 12:32
Aroclor1248	ND	0.050	1	02/17/2016 12:32
Aroclor1254	ND	0.050	1	02/17/2016 12:32
Aroclor1260	ND	0.050	1	02/17/2016 12:32
PCBs, total	ND	0.050	1	02/17/2016 12:32

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	76	70-130	02/17/2016 12:32

Analyst(s): CK

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/12/16	Analytical Method: SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	1.0	20	02/18/2016 16:47
Aroclor1221	ND	1.0	20	02/18/2016 16:47
Aroclor1232	ND	1.0	20	02/18/2016 16:47
Aroclor1242	ND	1.0	20	02/18/2016 16:47
Aroclor1248	ND	1.0	20	02/18/2016 16:47
Aroclor1254	ND	1.0	20	02/18/2016 16:47
Aroclor1260	ND	1.0	20	02/18/2016 16:47
PCBs, total	ND	1.0	20	02/18/2016 16:47

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	132	S	70-130	02/18/2016 16:47

Analyst(s): SS Analytical Comments: a1,h4,c1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	1.0	20	02/18/2016 17:24
Aroclor1221	ND	1.0	20	02/18/2016 17:24
Aroclor1232	ND	1.0	20	02/18/2016 17:24
Aroclor1242	ND	1.0	20	02/18/2016 17:24
Aroclor1248	ND	1.0	20	02/18/2016 17:24
Aroclor1254	ND	1.0	20	02/18/2016 17:24
Aroclor1260	ND	1.0	20	02/18/2016 17:24
PCBs, total	ND	1.0	20	02/18/2016 17:24

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	135	S	70-130	02/18/2016 17:24

Analyst(s): SS Analytical Comments: a1,h4,c1

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/12/16 **Analytical Method:** SW8082
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 13:06
Aroclor1221	ND	0.050	1	02/17/2016 13:06
Aroclor1232	ND	0.050	1	02/17/2016 13:06
Aroclor1242	ND	0.050	1	02/17/2016 13:06
Aroclor1248	ND	0.050	1	02/17/2016 13:06
Aroclor1254	ND	0.050	1	02/17/2016 13:06
Aroclor1260	ND	0.050	1	02/17/2016 13:06
PCBs, total	ND	0.050	1	02/17/2016 13:06

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	74	70-130	02/17/2016 13:06

Analyst(s): CK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.25	5	02/18/2016 18:02
Aroclor1221	ND	0.25	5	02/18/2016 18:02
Aroclor1232	ND	0.25	5	02/18/2016 18:02
Aroclor1242	ND	0.25	5	02/18/2016 18:02
Aroclor1248	ND	0.25	5	02/18/2016 18:02
Aroclor1254	ND	0.25	5	02/18/2016 18:02
Aroclor1260	ND	0.25	5	02/18/2016 18:02
PCBs, total	ND	0.25	5	02/18/2016 18:02

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	129	70-130	02/18/2016 18:02

Analyst(s): SS

Analytical Comments: a1,h4



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/18/2016 06:10
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/18/2016 06:10
Benzene	ND	H	0.0050	1	02/18/2016 06:10
Bromobenzene	ND	H	0.0050	1	02/18/2016 06:10
Bromochloromethane	ND	H	0.0050	1	02/18/2016 06:10
Bromodichloromethane	ND	H	0.0050	1	02/18/2016 06:10
Bromoform	ND	H	0.0050	1	02/18/2016 06:10
Bromomethane	ND	H	0.0050	1	02/18/2016 06:10
2-Butanone (MEK)	ND	H	0.020	1	02/18/2016 06:10
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/18/2016 06:10
n-Butyl benzene	ND	H	0.0050	1	02/18/2016 06:10
sec-Butyl benzene	ND	H	0.0050	1	02/18/2016 06:10
tert-Butyl benzene	ND	H	0.0050	1	02/18/2016 06:10
Carbon Disulfide	ND	H	0.0050	1	02/18/2016 06:10
Carbon Tetrachloride	ND	H	0.0050	1	02/18/2016 06:10
Chlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
Chloroethane	ND	H	0.0050	1	02/18/2016 06:10
Chloroform	ND	H	0.0050	1	02/18/2016 06:10
Chloromethane	ND	H	0.0050	1	02/18/2016 06:10
2-Chlorotoluene	ND	H	0.0050	1	02/18/2016 06:10
4-Chlorotoluene	ND	H	0.0050	1	02/18/2016 06:10
Dibromochloromethane	ND	H	0.0050	1	02/18/2016 06:10
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/18/2016 06:10
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/18/2016 06:10
Dibromomethane	ND	H	0.0050	1	02/18/2016 06:10
1,2-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
1,3-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
1,4-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
Dichlorodifluoromethane	ND	H	0.0050	1	02/18/2016 06:10
1,1-Dichloroethane	ND	H	0.0050	1	02/18/2016 06:10
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/18/2016 06:10
1,1-Dichloroethene	ND	H	0.0050	1	02/18/2016 06:10
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 06:10
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 06:10
1,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 06:10
1,3-Dichloropropane	ND	H	0.0050	1	02/18/2016 06:10
2,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 06:10

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/18/2016 06:10
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 06:10
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 06:10
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/18/2016 06:10
Ethylbenzene	ND	H	0.0050	1	02/18/2016 06:10
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/18/2016 06:10
Freon 113	ND	H	0.0050	1	02/18/2016 06:10
Hexachlorobutadiene	ND	H	0.0050	1	02/18/2016 06:10
Hexachloroethane	ND	H	0.0050	1	02/18/2016 06:10
2-Hexanone	ND	H	0.0050	1	02/18/2016 06:10
Isopropylbenzene	ND	H	0.0050	1	02/18/2016 06:10
4-Isopropyl toluene	ND	H	0.0050	1	02/18/2016 06:10
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/18/2016 06:10
Methylene chloride	ND	H	0.0050	1	02/18/2016 06:10
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/18/2016 06:10
Naphthalene	ND	H	0.0050	1	02/18/2016 06:10
n-Propyl benzene	ND	H	0.0050	1	02/18/2016 06:10
Styrene	ND	H	0.0050	1	02/18/2016 06:10
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 06:10
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 06:10
Tetrachloroethene	ND	H	0.0050	1	02/18/2016 06:10
Toluene	ND	H	0.0050	1	02/18/2016 06:10
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 06:10
1,1,1-Trichloroethane	ND	H	0.0050	1	02/18/2016 06:10
1,1,2-Trichloroethane	ND	H	0.0050	1	02/18/2016 06:10
Trichloroethene	ND	H	0.0050	1	02/18/2016 06:10
Trichlorofluoromethane	ND	H	0.0050	1	02/18/2016 06:10
1,2,3-Trichloropropane	ND	H	0.0050	1	02/18/2016 06:10
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 06:10
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 06:10
Vinyl Chloride	ND	H	0.0050	1	02/18/2016 06:10
Xylenes, Total	ND	H	0.0050	1	02/18/2016 06:10

(Cont.)



Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	106	H	70-130		02/18/2016 06:10
Toluene-d8	122	H	70-130		02/18/2016 06:10
4-BFB	90	H	70-130		02/18/2016 06:10
Benzene-d6	106	H	60-140		02/18/2016 06:10
Ethylbenzene-d10	125	H	60-140		02/18/2016 06:10
1,2-DCB-d4	104	H	60-140		02/18/2016 06:10

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/18/2016 05:30
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/18/2016 05:30
Benzene	ND	H	0.0050	1	02/18/2016 05:30
Bromobenzene	ND	H	0.0050	1	02/18/2016 05:30
Bromochloromethane	ND	H	0.0050	1	02/18/2016 05:30
Bromodichloromethane	ND	H	0.0050	1	02/18/2016 05:30
Bromoform	ND	H	0.0050	1	02/18/2016 05:30
Bromomethane	ND	H	0.0050	1	02/18/2016 05:30
2-Butanone (MEK)	ND	H	0.020	1	02/18/2016 05:30
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/18/2016 05:30
n-Butyl benzene	ND	H	0.0050	1	02/18/2016 05:30
sec-Butyl benzene	ND	H	0.0050	1	02/18/2016 05:30
tert-Butyl benzene	ND	H	0.0050	1	02/18/2016 05:30
Carbon Disulfide	ND	H	0.0050	1	02/18/2016 05:30
Carbon Tetrachloride	ND	H	0.0050	1	02/18/2016 05:30
Chlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
Chloroethane	ND	H	0.0050	1	02/18/2016 05:30
Chloroform	ND	H	0.0050	1	02/18/2016 05:30
Chloromethane	ND	H	0.0050	1	02/18/2016 05:30
2-Chlorotoluene	ND	H	0.0050	1	02/18/2016 05:30
4-Chlorotoluene	ND	H	0.0050	1	02/18/2016 05:30
Dibromochloromethane	ND	H	0.0050	1	02/18/2016 05:30
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/18/2016 05:30
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/18/2016 05:30
Dibromomethane	ND	H	0.0050	1	02/18/2016 05:30
1,2-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
1,3-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
1,4-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
Dichlorodifluoromethane	ND	H	0.0050	1	02/18/2016 05:30
1,1-Dichloroethane	ND	H	0.0050	1	02/18/2016 05:30
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/18/2016 05:30
1,1-Dichloroethene	ND	H	0.0050	1	02/18/2016 05:30
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 05:30
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 05:30
1,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 05:30
1,3-Dichloropropane	ND	H	0.0050	1	02/18/2016 05:30
2,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 05:30

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/18/2016 05:30
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 05:30
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 05:30
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/18/2016 05:30
Ethylbenzene	ND	H	0.0050	1	02/18/2016 05:30
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/18/2016 05:30
Freon 113	ND	H	0.0050	1	02/18/2016 05:30
Hexachlorobutadiene	ND	H	0.0050	1	02/18/2016 05:30
Hexachloroethane	ND	H	0.0050	1	02/18/2016 05:30
2-Hexanone	ND	H	0.0050	1	02/18/2016 05:30
Isopropylbenzene	ND	H	0.0050	1	02/18/2016 05:30
4-Isopropyl toluene	ND	H	0.0050	1	02/18/2016 05:30
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/18/2016 05:30
Methylene chloride	ND	H	0.0050	1	02/18/2016 05:30
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/18/2016 05:30
Naphthalene	ND	H	0.0050	1	02/18/2016 05:30
n-Propyl benzene	ND	H	0.0050	1	02/18/2016 05:30
Styrene	ND	H	0.0050	1	02/18/2016 05:30
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 05:30
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 05:30
Tetrachloroethene	ND	H	0.0050	1	02/18/2016 05:30
Toluene	ND	H	0.0050	1	02/18/2016 05:30
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 05:30
1,1,1-Trichloroethane	ND	H	0.0050	1	02/18/2016 05:30
1,1,2-Trichloroethane	ND	H	0.0050	1	02/18/2016 05:30
Trichloroethene	ND	H	0.0050	1	02/18/2016 05:30
Trichlorofluoromethane	ND	H	0.0050	1	02/18/2016 05:30
1,2,3-Trichloropropane	ND	H	0.0050	1	02/18/2016 05:30
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 05:30
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 05:30
Vinyl Chloride	ND	H	0.0050	1	02/18/2016 05:30
Xylenes, Total	ND	H	0.0050	1	02/18/2016 05:30

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	106	H	70-130		02/18/2016 05:30
Toluene-d8	123	H	70-130		02/18/2016 05:30
4-BFB	89	H	70-130		02/18/2016 05:30
Benzene-d6	100	H	60-140		02/18/2016 05:30
Ethylbenzene-d10	112	H	60-140		02/18/2016 05:30
1,2-DCB-d4	101	H	60-140		02/18/2016 05:30

Analyst(s): AK



Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	10	100	02/20/2016 16:12
tert-Amyl methyl ether (TAME)	ND	H	0.50	100	02/20/2016 16:12
Benzene	ND	H	0.50	100	02/20/2016 16:12
Bromobenzene	ND	H	0.50	100	02/20/2016 16:12
Bromochloromethane	ND	H	0.50	100	02/20/2016 16:12
Bromodichloromethane	ND	H	0.50	100	02/20/2016 16:12
Bromoform	ND	H	0.50	100	02/20/2016 16:12
Bromomethane	ND	H	0.50	100	02/20/2016 16:12
2-Butanone (MEK)	ND	H	2.0	100	02/20/2016 16:12
t-Butyl alcohol (TBA)	ND	H	5.0	100	02/20/2016 16:12
n-Butyl benzene	1.5	H	0.50	100	02/20/2016 16:12
sec-Butyl benzene	1.8	H	0.50	100	02/20/2016 16:12
tert-Butyl benzene	ND	H	0.50	100	02/20/2016 16:12
Carbon Disulfide	ND	H	0.50	100	02/20/2016 16:12
Carbon Tetrachloride	ND	H	0.50	100	02/20/2016 16:12
Chlorobenzene	ND	H	0.50	100	02/20/2016 16:12
Chloroethane	ND	H	0.50	100	02/20/2016 16:12
Chloroform	ND	H	0.50	100	02/20/2016 16:12
Chloromethane	ND	H	0.50	100	02/20/2016 16:12
2-Chlorotoluene	ND	H	0.50	100	02/20/2016 16:12
4-Chlorotoluene	ND	H	0.50	100	02/20/2016 16:12
Dibromochloromethane	ND	H	0.50	100	02/20/2016 16:12
1,2-Dibromo-3-chloropropane	ND	H	0.40	100	02/20/2016 16:12
1,2-Dibromoethane (EDB)	ND	H	0.40	100	02/20/2016 16:12
Dibromomethane	ND	H	0.50	100	02/20/2016 16:12
1,2-Dichlorobenzene	ND	H	0.50	100	02/20/2016 16:12
1,3-Dichlorobenzene	ND	H	0.50	100	02/20/2016 16:12
1,4-Dichlorobenzene	ND	H	0.50	100	02/20/2016 16:12
Dichlorodifluoromethane	ND	H	0.50	100	02/20/2016 16:12
1,1-Dichloroethane	ND	H	0.50	100	02/20/2016 16:12
1,2-Dichloroethane (1,2-DCA)	ND	H	0.40	100	02/20/2016 16:12
1,1-Dichloroethene	ND	H	0.50	100	02/20/2016 16:12
cis-1,2-Dichloroethene	ND	H	0.50	100	02/20/2016 16:12
trans-1,2-Dichloroethene	ND	H	0.50	100	02/20/2016 16:12
1,2-Dichloropropane	ND	H	0.50	100	02/20/2016 16:12
1,3-Dichloropropane	ND	H	0.50	100	02/20/2016 16:12
2,2-Dichloropropane	ND	H	0.50	100	02/20/2016 16:12

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.50	100	02/20/2016 16:12
cis-1,3-Dichloropropene	ND	H	0.50	100	02/20/2016 16:12
trans-1,3-Dichloropropene	ND	H	0.50	100	02/20/2016 16:12
Diisopropyl ether (DIPE)	ND	H	0.50	100	02/20/2016 16:12
Ethylbenzene	ND	H	0.50	100	02/20/2016 16:12
Ethyl tert-butyl ether (ETBE)	ND	H	0.50	100	02/20/2016 16:12
Freon 113	ND	H	0.50	100	02/20/2016 16:12
Hexachlorobutadiene	ND	H	0.50	100	02/20/2016 16:12
Hexachloroethane	ND	H	0.50	100	02/20/2016 16:12
2-Hexanone	ND	H	0.50	100	02/20/2016 16:12
Isopropylbenzene	ND	H	0.50	100	02/20/2016 16:12
4-Isopropyl toluene	0.72	H	0.50	100	02/20/2016 16:12
Methyl-t-butyl ether (MTBE)	ND	H	0.50	100	02/20/2016 16:12
Methylene chloride	ND	H	0.50	100	02/20/2016 16:12
4-Methyl-2-pentanone (MIBK)	ND	H	0.50	100	02/20/2016 16:12
Naphthalene	ND	H	0.50	100	02/20/2016 16:12
n-Propyl benzene	ND	H	0.50	100	02/20/2016 16:12
Styrene	ND	H	0.50	100	02/20/2016 16:12
1,1,1,2-Tetrachloroethane	ND	H	0.50	100	02/20/2016 16:12
1,1,2,2-Tetrachloroethane	ND	H	0.50	100	02/20/2016 16:12
Tetrachloroethene	ND	H	0.50	100	02/20/2016 16:12
Toluene	ND	H	0.50	100	02/20/2016 16:12
1,2,3-Trichlorobenzene	ND	H	0.50	100	02/20/2016 16:12
1,2,4-Trichlorobenzene	ND	H	0.50	100	02/20/2016 16:12
1,1,1-Trichloroethane	ND	H	0.50	100	02/20/2016 16:12
1,1,2-Trichloroethane	ND	H	0.50	100	02/20/2016 16:12
Trichloroethene	ND	H	0.50	100	02/20/2016 16:12
Trichlorofluoromethane	ND	H	0.50	100	02/20/2016 16:12
1,2,3-Trichloropropane	ND	H	0.50	100	02/20/2016 16:12
1,2,4-Trimethylbenzene	ND	H	0.50	100	02/20/2016 16:12
1,3,5-Trimethylbenzene	ND	H	0.50	100	02/20/2016 16:12
Vinyl Chloride	ND	H	0.50	100	02/20/2016 16:12
Xylenes, Total	ND	H	0.50	100	02/20/2016 16:12

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	119	H	70-130		02/20/2016 16:12
Toluene-d8	97	H	70-130		02/20/2016 16:12
4-BFB	79	H	70-130		02/20/2016 16:12
Benzene-d6	99	H	60-140		02/20/2016 16:12
Ethylbenzene-d10	231	SH	60-140		02/20/2016 16:12
1,2-DCB-d4	160	SH	60-140		02/20/2016 16:12

Analyst(s): AK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/18/2016 15:35
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/18/2016 15:35
Benzene	ND	H	0.0050	1	02/18/2016 15:35
Bromobenzene	ND	H	0.0050	1	02/18/2016 15:35
Bromochloromethane	ND	H	0.0050	1	02/18/2016 15:35
Bromodichloromethane	ND	H	0.0050	1	02/18/2016 15:35
Bromoform	ND	H	0.0050	1	02/18/2016 15:35
Bromomethane	ND	H	0.0050	1	02/18/2016 15:35
2-Butanone (MEK)	ND	H	0.020	1	02/18/2016 15:35
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/18/2016 15:35
n-Butyl benzene	ND	H	0.0050	1	02/18/2016 15:35
sec-Butyl benzene	ND	H	0.0050	1	02/18/2016 15:35
tert-Butyl benzene	ND	H	0.0050	1	02/18/2016 15:35
Carbon Disulfide	ND	H	0.0050	1	02/18/2016 15:35
Carbon Tetrachloride	ND	H	0.0050	1	02/18/2016 15:35
Chlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
Chloroethane	ND	H	0.0050	1	02/18/2016 15:35
Chloroform	ND	H	0.0050	1	02/18/2016 15:35
Chloromethane	ND	H	0.0050	1	02/18/2016 15:35
2-Chlorotoluene	ND	H	0.0050	1	02/18/2016 15:35
4-Chlorotoluene	ND	H	0.0050	1	02/18/2016 15:35
Dibromochloromethane	ND	H	0.0050	1	02/18/2016 15:35
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/18/2016 15:35
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/18/2016 15:35
Dibromomethane	ND	H	0.0050	1	02/18/2016 15:35
1,2-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
1,3-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
1,4-Dichlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
Dichlorodifluoromethane	ND	H	0.0050	1	02/18/2016 15:35
1,1-Dichloroethane	ND	H	0.0050	1	02/18/2016 15:35
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/18/2016 15:35
1,1-Dichloroethene	ND	H	0.0050	1	02/18/2016 15:35
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 15:35
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/18/2016 15:35
1,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 15:35
1,3-Dichloropropane	ND	H	0.0050	1	02/18/2016 15:35
2,2-Dichloropropane	ND	H	0.0050	1	02/18/2016 15:35

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC18	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/18/2016 15:35
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 15:35
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/18/2016 15:35
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/18/2016 15:35
Ethylbenzene	ND	H	0.0050	1	02/18/2016 15:35
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/18/2016 15:35
Freon 113	ND	H	0.0050	1	02/18/2016 15:35
Hexachlorobutadiene	ND	H	0.0050	1	02/18/2016 15:35
Hexachloroethane	ND	H	0.0050	1	02/18/2016 15:35
2-Hexanone	ND	H	0.0050	1	02/18/2016 15:35
Isopropylbenzene	ND	H	0.0050	1	02/18/2016 15:35
4-Isopropyl toluene	ND	H	0.0050	1	02/18/2016 15:35
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/18/2016 15:35
Methylene chloride	ND	H	0.0050	1	02/18/2016 15:35
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/18/2016 15:35
Naphthalene	ND	H	0.0050	1	02/18/2016 15:35
n-Propyl benzene	ND	H	0.0050	1	02/18/2016 15:35
Styrene	ND	H	0.0050	1	02/18/2016 15:35
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 15:35
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/18/2016 15:35
Tetrachloroethene	ND	H	0.0050	1	02/18/2016 15:35
Toluene	ND	H	0.0050	1	02/18/2016 15:35
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/18/2016 15:35
1,1,1-Trichloroethane	ND	H	0.0050	1	02/18/2016 15:35
1,1,2-Trichloroethane	ND	H	0.0050	1	02/18/2016 15:35
Trichloroethene	ND	H	0.0050	1	02/18/2016 15:35
Trichlorofluoromethane	ND	H	0.0050	1	02/18/2016 15:35
1,2,3-Trichloropropane	ND	H	0.0050	1	02/18/2016 15:35
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 15:35
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/18/2016 15:35
Vinyl Chloride	ND	H	0.0050	1	02/18/2016 15:35
Xylenes, Total	ND	H	0.0050	1	02/18/2016 15:35

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC18	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	114	H	70-130		02/18/2016 15:35
Toluene-d8	116	H	70-130		02/18/2016 15:35
4-BFB	84	H	70-130		02/18/2016 15:35
Benzene-d6	116	H	60-140		02/18/2016 15:35
Ethylbenzene-d10	105	H	60-140		02/18/2016 15:35
1,2-DCB-d4	109	H	60-140		02/18/2016 15:35

Analyst(s): KF



Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.40	4	02/22/2016 12:40
tert-Amyl methyl ether (TAME)	ND	H	0.020	4	02/22/2016 12:40
Benzene	ND	H	0.020	4	02/22/2016 12:40
Bromobenzene	ND	H	0.020	4	02/22/2016 12:40
Bromochloromethane	ND	H	0.020	4	02/22/2016 12:40
Bromodichloromethane	ND	H	0.020	4	02/22/2016 12:40
Bromoform	ND	H	0.020	4	02/22/2016 12:40
Bromomethane	ND	H	0.020	4	02/22/2016 12:40
2-Butanone (MEK)	ND	H	0.080	4	02/22/2016 12:40
t-Butyl alcohol (TBA)	ND	H	0.20	4	02/22/2016 12:40
n-Butyl benzene	ND	H	0.020	4	02/22/2016 12:40
sec-Butyl benzene	ND	H	0.020	4	02/22/2016 12:40
tert-Butyl benzene	ND	H	0.020	4	02/22/2016 12:40
Carbon Disulfide	ND	H	0.020	4	02/22/2016 12:40
Carbon Tetrachloride	ND	H	0.020	4	02/22/2016 12:40
Chlorobenzene	ND	H	0.020	4	02/22/2016 12:40
Chloroethane	ND	H	0.020	4	02/22/2016 12:40
Chloroform	ND	H	0.020	4	02/22/2016 12:40
Chloromethane	ND	H	0.020	4	02/22/2016 12:40
2-Chlorotoluene	ND	H	0.020	4	02/22/2016 12:40
4-Chlorotoluene	ND	H	0.020	4	02/22/2016 12:40
Dibromochloromethane	ND	H	0.020	4	02/22/2016 12:40
1,2-Dibromo-3-chloropropane	ND	H	0.016	4	02/22/2016 12:40
1,2-Dibromoethane (EDB)	ND	H	0.016	4	02/22/2016 12:40
Dibromomethane	ND	H	0.020	4	02/22/2016 12:40
1,2-Dichlorobenzene	ND	H	0.020	4	02/22/2016 12:40
1,3-Dichlorobenzene	ND	H	0.020	4	02/22/2016 12:40
1,4-Dichlorobenzene	ND	H	0.020	4	02/22/2016 12:40
Dichlorodifluoromethane	ND	H	0.020	4	02/22/2016 12:40
1,1-Dichloroethane	ND	H	0.020	4	02/22/2016 12:40
1,2-Dichloroethane (1,2-DCA)	ND	H	0.016	4	02/22/2016 12:40
1,1-Dichloroethene	ND	H	0.020	4	02/22/2016 12:40
cis-1,2-Dichloroethene	ND	H	0.020	4	02/22/2016 12:40
trans-1,2-Dichloroethene	ND	H	0.020	4	02/22/2016 12:40
1,2-Dichloropropane	ND	H	0.020	4	02/22/2016 12:40
1,3-Dichloropropane	ND	H	0.020	4	02/22/2016 12:40
2,2-Dichloropropane	ND	H	0.020	4	02/22/2016 12:40

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.020	4	02/22/2016 12:40
cis-1,3-Dichloropropene	ND	H	0.020	4	02/22/2016 12:40
trans-1,3-Dichloropropene	ND	H	0.020	4	02/22/2016 12:40
Diisopropyl ether (DIPE)	ND	H	0.020	4	02/22/2016 12:40
Ethylbenzene	ND	H	0.020	4	02/22/2016 12:40
Ethyl tert-butyl ether (ETBE)	ND	H	0.020	4	02/22/2016 12:40
Freon 113	ND	H	0.020	4	02/22/2016 12:40
Hexachlorobutadiene	ND	H	0.020	4	02/22/2016 12:40
Hexachloroethane	ND	H	0.020	4	02/22/2016 12:40
2-Hexanone	ND	H	0.020	4	02/22/2016 12:40
Isopropylbenzene	ND	H	0.020	4	02/22/2016 12:40
4-Isopropyl toluene	0.028	H	0.020	4	02/22/2016 12:40
Methyl-t-butyl ether (MTBE)	ND	H	0.020	4	02/22/2016 12:40
Methylene chloride	ND	H	0.020	4	02/22/2016 12:40
4-Methyl-2-pentanone (MIBK)	ND	H	0.020	4	02/22/2016 12:40
Naphthalene	ND	H	0.020	4	02/22/2016 12:40
n-Propyl benzene	ND	H	0.020	4	02/22/2016 12:40
Styrene	ND	H	0.020	4	02/22/2016 12:40
1,1,1,2-Tetrachloroethane	ND	H	0.020	4	02/22/2016 12:40
1,1,2,2-Tetrachloroethane	ND	H	0.020	4	02/22/2016 12:40
Tetrachloroethene	ND	H	0.020	4	02/22/2016 12:40
Toluene	ND	H	0.020	4	02/22/2016 12:40
1,2,3-Trichlorobenzene	ND	H	0.020	4	02/22/2016 12:40
1,2,4-Trichlorobenzene	ND	H	0.020	4	02/22/2016 12:40
1,1,1-Trichloroethane	ND	H	0.020	4	02/22/2016 12:40
1,1,2-Trichloroethane	ND	H	0.020	4	02/22/2016 12:40
Trichloroethene	ND	H	0.020	4	02/22/2016 12:40
Trichlorofluoromethane	ND	H	0.020	4	02/22/2016 12:40
1,2,3-Trichloropropane	ND	H	0.020	4	02/22/2016 12:40
1,2,4-Trimethylbenzene	0.027	H	0.020	4	02/22/2016 12:40
1,3,5-Trimethylbenzene	ND	H	0.020	4	02/22/2016 12:40
Vinyl Chloride	ND	H	0.020	4	02/22/2016 12:40
Xylenes, Total	ND	H	0.020	4	02/22/2016 12:40

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	106	H	70-130		02/22/2016 12:40
Toluene-d8	110	H	70-130		02/22/2016 12:40
4-BFB	0	SH	70-130		02/22/2016 12:40
Benzene-d6	101	H	60-140		02/22/2016 12:40
Ethylbenzene-d10	102	H	60-140		02/22/2016 12:40
1,2-DCB-d4	98	H	60-140		02/22/2016 12:40

Analyst(s): AK

Analytical Comments: a2,c2



Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	20	200	02/18/2016 18:02
tert-Amyl methyl ether (TAME)	ND	H	1.0	200	02/18/2016 18:02
Benzene	ND	H	1.0	200	02/18/2016 18:02
Bromobenzene	ND	H	1.0	200	02/18/2016 18:02
Bromochloromethane	ND	H	1.0	200	02/18/2016 18:02
Bromodichloromethane	ND	H	1.0	200	02/18/2016 18:02
Bromoform	ND	H	1.0	200	02/18/2016 18:02
Bromomethane	ND	H	1.0	200	02/18/2016 18:02
2-Butanone (MEK)	ND	H	4.0	200	02/18/2016 18:02
t-Butyl alcohol (TBA)	ND	H	10	200	02/18/2016 18:02
n-Butyl benzene	3.9	H	1.0	200	02/18/2016 18:02
sec-Butyl benzene	4.7	H	1.0	200	02/18/2016 18:02
tert-Butyl benzene	ND	H	1.0	200	02/18/2016 18:02
Carbon Disulfide	ND	H	1.0	200	02/18/2016 18:02
Carbon Tetrachloride	ND	H	1.0	200	02/18/2016 18:02
Chlorobenzene	ND	H	1.0	200	02/18/2016 18:02
Chloroethane	ND	H	1.0	200	02/18/2016 18:02
Chloroform	ND	H	1.0	200	02/18/2016 18:02
Chloromethane	ND	H	1.0	200	02/18/2016 18:02
2-Chlorotoluene	ND	H	1.0	200	02/18/2016 18:02
4-Chlorotoluene	ND	H	1.0	200	02/18/2016 18:02
Dibromochloromethane	ND	H	1.0	200	02/18/2016 18:02
1,2-Dibromo-3-chloropropane	ND	H	0.80	200	02/18/2016 18:02
1,2-Dibromoethane (EDB)	ND	H	0.80	200	02/18/2016 18:02
Dibromomethane	ND	H	1.0	200	02/18/2016 18:02
1,2-Dichlorobenzene	ND	H	1.0	200	02/18/2016 18:02
1,3-Dichlorobenzene	ND	H	1.0	200	02/18/2016 18:02
1,4-Dichlorobenzene	ND	H	1.0	200	02/18/2016 18:02
Dichlorodifluoromethane	ND	H	1.0	200	02/18/2016 18:02
1,1-Dichloroethane	ND	H	1.0	200	02/18/2016 18:02
1,2-Dichloroethane (1,2-DCA)	ND	H	0.80	200	02/18/2016 18:02
1,1-Dichloroethene	ND	H	1.0	200	02/18/2016 18:02
cis-1,2-Dichloroethene	ND	H	1.0	200	02/18/2016 18:02
trans-1,2-Dichloroethene	ND	H	1.0	200	02/18/2016 18:02
1,2-Dichloropropane	ND	H	1.0	200	02/18/2016 18:02
1,3-Dichloropropane	ND	H	1.0	200	02/18/2016 18:02
2,2-Dichloropropane	ND	H	1.0	200	02/18/2016 18:02

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	1.0	200	02/18/2016 18:02
cis-1,3-Dichloropropene	ND	H	1.0	200	02/18/2016 18:02
trans-1,3-Dichloropropene	ND	H	1.0	200	02/18/2016 18:02
Diisopropyl ether (DIPE)	ND	H	1.0	200	02/18/2016 18:02
Ethylbenzene	ND	H	1.0	200	02/18/2016 18:02
Ethyl tert-butyl ether (ETBE)	ND	H	1.0	200	02/18/2016 18:02
Freon 113	ND	H	1.0	200	02/18/2016 18:02
Hexachlorobutadiene	ND	H	1.0	200	02/18/2016 18:02
Hexachloroethane	ND	H	1.0	200	02/18/2016 18:02
2-Hexanone	ND	H	1.0	200	02/18/2016 18:02
Isopropylbenzene	7.3	H	1.0	200	02/18/2016 18:02
4-Isopropyl toluene	ND	H	1.0	200	02/18/2016 18:02
Methyl-t-butyl ether (MTBE)	ND	H	1.0	200	02/18/2016 18:02
Methylene chloride	ND	H	1.0	200	02/18/2016 18:02
4-Methyl-2-pentanone (MIBK)	ND	H	1.0	200	02/18/2016 18:02
Naphthalene	19	H	1.0	200	02/18/2016 18:02
n-Propyl benzene	8.4	H	1.0	200	02/18/2016 18:02
Styrene	ND	H	1.0	200	02/18/2016 18:02
1,1,1,2-Tetrachloroethane	ND	H	1.0	200	02/18/2016 18:02
1,1,2,2-Tetrachloroethane	ND	H	1.0	200	02/18/2016 18:02
Tetrachloroethene	ND	H	1.0	200	02/18/2016 18:02
Toluene	ND	H	1.0	200	02/18/2016 18:02
1,2,3-Trichlorobenzene	ND	H	1.0	200	02/18/2016 18:02
1,2,4-Trichlorobenzene	ND	H	1.0	200	02/18/2016 18:02
1,1,1-Trichloroethane	ND	H	1.0	200	02/18/2016 18:02
1,1,2-Trichloroethane	ND	H	1.0	200	02/18/2016 18:02
Trichloroethene	ND	H	1.0	200	02/18/2016 18:02
Trichlorofluoromethane	ND	H	1.0	200	02/18/2016 18:02
1,2,3-Trichloropropane	ND	H	1.0	200	02/18/2016 18:02
1,2,4-Trimethylbenzene	ND	H	1.0	200	02/18/2016 18:02
1,3,5-Trimethylbenzene	ND	H	1.0	200	02/18/2016 18:02
Vinyl Chloride	ND	H	1.0	200	02/18/2016 18:02
Xylenes, Total	ND	H	1.0	200	02/18/2016 18:02

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	110	H	70-130		02/18/2016 18:02
Toluene-d8	108	H	70-130		02/18/2016 18:02
4-BFB	94	H	70-130		02/18/2016 18:02
Benzene-d6	86	H	60-140		02/18/2016 18:02
Ethylbenzene-d10	126	H	60-140		02/18/2016 18:02
1,2-DCB-d4	67	H	60-140		02/18/2016 18:02

Analyst(s): KF



Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	4.0	40	02/22/2016 13:20
tert-Amyl methyl ether (TAME)	ND	H	0.20	40	02/22/2016 13:20
Benzene	ND	H	0.20	40	02/22/2016 13:20
Bromobenzene	ND	H	0.20	40	02/22/2016 13:20
Bromochloromethane	ND	H	0.20	40	02/22/2016 13:20
Bromodichloromethane	ND	H	0.20	40	02/22/2016 13:20
Bromoform	ND	H	0.20	40	02/22/2016 13:20
Bromomethane	ND	H	0.20	40	02/22/2016 13:20
2-Butanone (MEK)	ND	H	0.80	40	02/22/2016 13:20
t-Butyl alcohol (TBA)	ND	H	2.0	40	02/22/2016 13:20
n-Butyl benzene	0.60	H	0.20	40	02/22/2016 13:20
sec-Butyl benzene	0.75	H	0.20	40	02/22/2016 13:20
tert-Butyl benzene	ND	H	0.20	40	02/22/2016 13:20
Carbon Disulfide	ND	H	0.20	40	02/22/2016 13:20
Carbon Tetrachloride	ND	H	0.20	40	02/22/2016 13:20
Chlorobenzene	ND	H	0.20	40	02/22/2016 13:20
Chloroethane	ND	H	0.20	40	02/22/2016 13:20
Chloroform	ND	H	0.20	40	02/22/2016 13:20
Chloromethane	ND	H	0.20	40	02/22/2016 13:20
2-Chlorotoluene	ND	H	0.20	40	02/22/2016 13:20
4-Chlorotoluene	ND	H	0.20	40	02/22/2016 13:20
Dibromochloromethane	ND	H	0.20	40	02/22/2016 13:20
1,2-Dibromo-3-chloropropane	ND	H	0.16	40	02/22/2016 13:20
1,2-Dibromoethane (EDB)	ND	H	0.16	40	02/22/2016 13:20
Dibromomethane	ND	H	0.20	40	02/22/2016 13:20
1,2-Dichlorobenzene	ND	H	0.20	40	02/22/2016 13:20
1,3-Dichlorobenzene	ND	H	0.20	40	02/22/2016 13:20
1,4-Dichlorobenzene	ND	H	0.20	40	02/22/2016 13:20
Dichlorodifluoromethane	ND	H	0.20	40	02/22/2016 13:20
1,1-Dichloroethane	ND	H	0.20	40	02/22/2016 13:20
1,2-Dichloroethane (1,2-DCA)	ND	H	0.16	40	02/22/2016 13:20
1,1-Dichloroethene	ND	H	0.20	40	02/22/2016 13:20
cis-1,2-Dichloroethene	ND	H	0.20	40	02/22/2016 13:20
trans-1,2-Dichloroethene	ND	H	0.20	40	02/22/2016 13:20
1,2-Dichloropropane	ND	H	0.20	40	02/22/2016 13:20
1,3-Dichloropropane	ND	H	0.20	40	02/22/2016 13:20
2,2-Dichloropropane	ND	H	0.20	40	02/22/2016 13:20

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.20	40	02/22/2016 13:20
cis-1,3-Dichloropropene	ND	H	0.20	40	02/22/2016 13:20
trans-1,3-Dichloropropene	ND	H	0.20	40	02/22/2016 13:20
Diisopropyl ether (DIPE)	ND	H	0.20	40	02/22/2016 13:20
Ethylbenzene	0.21	H	0.20	40	02/22/2016 13:20
Ethyl tert-butyl ether (ETBE)	ND	H	0.20	40	02/22/2016 13:20
Freon 113	ND	H	0.20	40	02/22/2016 13:20
Hexachlorobutadiene	ND	H	0.20	40	02/22/2016 13:20
Hexachloroethane	ND	H	0.20	40	02/22/2016 13:20
2-Hexanone	ND	H	0.20	40	02/22/2016 13:20
Isopropylbenzene	0.95	H	0.20	40	02/22/2016 13:20
4-Isopropyl toluene	0.43	H	0.20	40	02/22/2016 13:20
Methyl-t-butyl ether (MTBE)	ND	H	0.20	40	02/22/2016 13:20
Methylene chloride	ND	H	0.20	40	02/22/2016 13:20
4-Methyl-2-pentanone (MIBK)	ND	H	0.20	40	02/22/2016 13:20
Naphthalene	ND	H	0.20	40	02/22/2016 13:20
n-Propyl benzene	1.3	H	0.20	40	02/22/2016 13:20
Styrene	ND	H	0.20	40	02/22/2016 13:20
1,1,1,2-Tetrachloroethane	ND	H	0.20	40	02/22/2016 13:20
1,1,2,2-Tetrachloroethane	ND	H	0.20	40	02/22/2016 13:20
Tetrachloroethene	ND	H	0.20	40	02/22/2016 13:20
Toluene	ND	H	0.20	40	02/22/2016 13:20
1,2,3-Trichlorobenzene	ND	H	0.20	40	02/22/2016 13:20
1,2,4-Trichlorobenzene	ND	H	0.20	40	02/22/2016 13:20
1,1,1-Trichloroethane	ND	H	0.20	40	02/22/2016 13:20
1,1,2-Trichloroethane	ND	H	0.20	40	02/22/2016 13:20
Trichloroethene	ND	H	0.20	40	02/22/2016 13:20
Trichlorofluoromethane	ND	H	0.20	40	02/22/2016 13:20
1,2,3-Trichloropropane	ND	H	0.20	40	02/22/2016 13:20
1,2,4-Trimethylbenzene	ND	H	0.20	40	02/22/2016 13:20
1,3,5-Trimethylbenzene	ND	H	0.20	40	02/22/2016 13:20
Vinyl Chloride	ND	H	0.20	40	02/22/2016 13:20
Xylenes, Total	ND	H	0.20	40	02/22/2016 13:20

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	109	H	70-130		02/22/2016 13:20
Toluene-d8	108	H	70-130		02/22/2016 13:20
4-BFB	0	SH	70-130		02/22/2016 13:20
Benzene-d6	107	H	60-140		02/22/2016 13:20
Ethylbenzene-d10	173	SH	60-140		02/22/2016 13:20
1,2-DCB-d4	100	H	60-140		02/22/2016 13:20

Analyst(s): AK

Analytical Comments: a2,c2



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW5030B
Date Prepared: 2/12/16 **Analytical Method:** SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	5.0	50	02/22/2016 14:00
tert-Amyl methyl ether (TAME)	ND	H	0.25	50	02/22/2016 14:00
Benzene	ND	H	0.25	50	02/22/2016 14:00
Bromobenzene	ND	H	0.25	50	02/22/2016 14:00
Bromochloromethane	ND	H	0.25	50	02/22/2016 14:00
Bromodichloromethane	ND	H	0.25	50	02/22/2016 14:00
Bromoform	ND	H	0.25	50	02/22/2016 14:00
Bromomethane	ND	H	0.25	50	02/22/2016 14:00
2-Butanone (MEK)	ND	H	1.0	50	02/22/2016 14:00
t-Butyl alcohol (TBA)	ND	H	2.5	50	02/22/2016 14:00
n-Butyl benzene	0.45	H	0.25	50	02/22/2016 14:00
sec-Butyl benzene	0.39	H	0.25	50	02/22/2016 14:00
tert-Butyl benzene	ND	H	0.25	50	02/22/2016 14:00
Carbon Disulfide	ND	H	0.25	50	02/22/2016 14:00
Carbon Tetrachloride	ND	H	0.25	50	02/22/2016 14:00
Chlorobenzene	ND	H	0.25	50	02/22/2016 14:00
Chloroethane	ND	H	0.25	50	02/22/2016 14:00
Chloroform	ND	H	0.25	50	02/22/2016 14:00
Chloromethane	ND	H	0.25	50	02/22/2016 14:00
2-Chlorotoluene	ND	H	0.25	50	02/22/2016 14:00
4-Chlorotoluene	ND	H	0.25	50	02/22/2016 14:00
Dibromochloromethane	ND	H	0.25	50	02/22/2016 14:00
1,2-Dibromo-3-chloropropane	ND	H	0.20	50	02/22/2016 14:00
1,2-Dibromoethane (EDB)	ND	H	0.20	50	02/22/2016 14:00
Dibromomethane	ND	H	0.25	50	02/22/2016 14:00
1,2-Dichlorobenzene	ND	H	0.25	50	02/22/2016 14:00
1,3-Dichlorobenzene	ND	H	0.25	50	02/22/2016 14:00
1,4-Dichlorobenzene	ND	H	0.25	50	02/22/2016 14:00
Dichlorodifluoromethane	ND	H	0.25	50	02/22/2016 14:00
1,1-Dichloroethane	ND	H	0.25	50	02/22/2016 14:00
1,2-Dichloroethane (1,2-DCA)	ND	H	0.20	50	02/22/2016 14:00
1,1-Dichloroethene	ND	H	0.25	50	02/22/2016 14:00
cis-1,2-Dichloroethene	ND	H	0.25	50	02/22/2016 14:00
trans-1,2-Dichloroethene	ND	H	0.25	50	02/22/2016 14:00
1,2-Dichloropropane	ND	H	0.25	50	02/22/2016 14:00
1,3-Dichloropropane	ND	H	0.25	50	02/22/2016 14:00
2,2-Dichloropropane	ND	H	0.25	50	02/22/2016 14:00

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW5030B
Date Prepared: 2/12/16	Analytical Method: SW8260B
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC10	116646
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.25	50	02/22/2016 14:00
cis-1,3-Dichloropropene	ND	H	0.25	50	02/22/2016 14:00
trans-1,3-Dichloropropene	ND	H	0.25	50	02/22/2016 14:00
Diisopropyl ether (DIPE)	ND	H	0.25	50	02/22/2016 14:00
Ethylbenzene	ND	H	0.25	50	02/22/2016 14:00
Ethyl tert-butyl ether (ETBE)	ND	H	0.25	50	02/22/2016 14:00
Freon 113	ND	H	0.25	50	02/22/2016 14:00
Hexachlorobutadiene	ND	H	0.25	50	02/22/2016 14:00
Hexachloroethane	ND	H	0.25	50	02/22/2016 14:00
2-Hexanone	ND	H	0.25	50	02/22/2016 14:00
Isopropylbenzene	ND	H	0.25	50	02/22/2016 14:00
4-Isopropyl toluene	ND	H	0.25	50	02/22/2016 14:00
Methyl-t-butyl ether (MTBE)	ND	H	0.25	50	02/22/2016 14:00
Methylene chloride	ND	H	0.25	50	02/22/2016 14:00
4-Methyl-2-pentanone (MIBK)	ND	H	0.25	50	02/22/2016 14:00
Naphthalene	ND	H	0.25	50	02/22/2016 14:00
n-Propyl benzene	ND	H	0.25	50	02/22/2016 14:00
Styrene	ND	H	0.25	50	02/22/2016 14:00
1,1,1,2-Tetrachloroethane	ND	H	0.25	50	02/22/2016 14:00
1,1,2,2-Tetrachloroethane	ND	H	0.25	50	02/22/2016 14:00
Tetrachloroethene	ND	H	0.25	50	02/22/2016 14:00
Toluene	ND	H	0.25	50	02/22/2016 14:00
1,2,3-Trichlorobenzene	ND	H	0.25	50	02/22/2016 14:00
1,2,4-Trichlorobenzene	ND	H	0.25	50	02/22/2016 14:00
1,1,1-Trichloroethane	ND	H	0.25	50	02/22/2016 14:00
1,1,2-Trichloroethane	ND	H	0.25	50	02/22/2016 14:00
Trichloroethene	ND	H	0.25	50	02/22/2016 14:00
Trichlorofluoromethane	ND	H	0.25	50	02/22/2016 14:00
1,2,3-Trichloropropane	ND	H	0.25	50	02/22/2016 14:00
1,2,4-Trimethylbenzene	ND	H	0.25	50	02/22/2016 14:00
1,3,5-Trimethylbenzene	ND	H	0.25	50	02/22/2016 14:00
Vinyl Chloride	ND	H	0.25	50	02/22/2016 14:00
Xylenes, Total	ND	H	0.25	50	02/22/2016 14:00

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Analytical Report

Client: CKG Environmental

WorkOrder: 1601239

Date Received: 1/8/16 19:53

Extraction Method: SW5030B

Date Prepared: 2/12/16

Analytical Method: SW8260B

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC10	116646

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	110	H	70-130		02/22/2016 14:00
Toluene-d8	110	H	70-130		02/22/2016 14:00
4-BFB	0	SH	70-130		02/22/2016 14:00
Benzene-d6	27	SH	60-140		02/22/2016 14:00
Ethylbenzene-d10	57	SH	60-140		02/22/2016 14:00
1,2-DCB-d4	76	H	60-140		02/22/2016 14:00

Analyst(s): AK

Analytical Comments: a2,c2



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20*	1601239-031A	Soil	01/05/2016 11:30	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 01:47
Acenaphthylene	ND	H	0.25	1	02/19/2016 01:47
Acetochlor	ND	H	0.25	1	02/19/2016 01:47
Anthracene	ND	H	0.25	1	02/19/2016 01:47
Benzidine	ND	H	1.3	1	02/19/2016 01:47
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 01:47
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 01:47
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 01:47
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 01:47
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 01:47
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 01:47
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 01:47
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 01:47
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 01:47
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 01:47
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 01:47
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 01:47
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 01:47
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 01:47
4-Chloroaniline	ND	H	0.50	1	02/19/2016 01:47
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 01:47
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 01:47
2-Chlorophenol	ND	H	0.25	1	02/19/2016 01:47
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 01:47
Chrysene	ND	H	0.25	1	02/19/2016 01:47
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 01:47
Dibenzofuran	ND	H	0.25	1	02/19/2016 01:47
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 01:47
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:47
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:47
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:47
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 01:47
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 01:47
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 01:47
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 01:47
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 01:47
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 01:47

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20*	1601239-031A	Soil	01/05/2016 11:30	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 01:47
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 01:47
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 01:47
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 01:47
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 01:47
Fluoranthene	ND	H	0.25	1	02/19/2016 01:47
Fluorene	ND	H	0.25	1	02/19/2016 01:47
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 01:47
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 01:47
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 01:47
Hexachloroethane	ND	H	0.25	1	02/19/2016 01:47
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 01:47
Isophorone	ND	H	0.25	1	02/19/2016 01:47
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 01:47
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 01:47
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 01:47
Naphthalene	ND	H	0.25	1	02/19/2016 01:47
2-Nitroaniline	ND	H	1.3	1	02/19/2016 01:47
3-Nitroaniline	ND	H	1.3	1	02/19/2016 01:47
4-Nitroaniline	ND	H	1.3	1	02/19/2016 01:47
Nitrobenzene	ND	H	0.25	1	02/19/2016 01:47
2-Nitrophenol	ND	H	1.3	1	02/19/2016 01:47
4-Nitrophenol	ND	H	1.3	1	02/19/2016 01:47
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 01:47
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 01:47
Pentachlorophenol	ND	H	1.3	1	02/19/2016 01:47
Phenanthrene	ND	H	0.25	1	02/19/2016 01:47
Phenol	ND	H	0.25	1	02/19/2016 01:47
Pyrene	ND	H	0.25	1	02/19/2016 01:47
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 01:47
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 01:47
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 01:47

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	GC21	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	111	H	30-130		02/19/2016 01:47
Phenol-d5	105	H	30-130		02/19/2016 01:47
Nitrobenzene-d5	93	H	30-130		02/19/2016 01:47
2-Fluorobiphenyl	101	H	30-130		02/19/2016 01:47
2,4,6-Tribromophenol	57	H	16-130		02/19/2016 01:47
4-Terphenyl-d14	102	H	30-130		02/19/2016 01:47

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 01:19
Acenaphthylene	ND	H	0.25	1	02/19/2016 01:19
Acetochlor	ND	H	0.25	1	02/19/2016 01:19
Anthracene	ND	H	0.25	1	02/19/2016 01:19
Benzidine	ND	H	1.3	1	02/19/2016 01:19
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 01:19
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 01:19
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 01:19
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 01:19
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 01:19
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 01:19
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 01:19
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 01:19
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 01:19
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 01:19
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 01:19
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 01:19
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 01:19
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 01:19
4-Chloroaniline	ND	H	0.50	1	02/19/2016 01:19
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 01:19
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 01:19
2-Chlorophenol	ND	H	0.25	1	02/19/2016 01:19
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 01:19
Chrysene	ND	H	0.25	1	02/19/2016 01:19
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 01:19
Dibenzofuran	ND	H	0.25	1	02/19/2016 01:19
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 01:19
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:19
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:19
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 01:19
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 01:19
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 01:19
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 01:19
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 01:19
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 01:19
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 01:19

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC21	116758
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 01:19
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 01:19
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 01:19
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 01:19
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 01:19
Fluoranthene	ND	H	0.25	1	02/19/2016 01:19
Fluorene	ND	H	0.25	1	02/19/2016 01:19
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 01:19
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 01:19
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 01:19
Hexachloroethane	ND	H	0.25	1	02/19/2016 01:19
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 01:19
Isophorone	ND	H	0.25	1	02/19/2016 01:19
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 01:19
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 01:19
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 01:19
Naphthalene	ND	H	0.25	1	02/19/2016 01:19
2-Nitroaniline	ND	H	1.3	1	02/19/2016 01:19
3-Nitroaniline	ND	H	1.3	1	02/19/2016 01:19
4-Nitroaniline	ND	H	1.3	1	02/19/2016 01:19
Nitrobenzene	ND	H	0.25	1	02/19/2016 01:19
2-Nitrophenol	ND	H	1.3	1	02/19/2016 01:19
4-Nitrophenol	ND	H	1.3	1	02/19/2016 01:19
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 01:19
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 01:19
Pentachlorophenol	ND	H	1.3	1	02/19/2016 01:19
Phenanthrene	ND	H	0.25	1	02/19/2016 01:19
Phenol	ND	H	0.25	1	02/19/2016 01:19
Pyrene	ND	H	0.25	1	02/19/2016 01:19
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 01:19
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 01:19
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 01:19

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	GC21	116758

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	114	H	30-130		02/19/2016 01:19
Phenol-d5	106	H	30-130		02/19/2016 01:19
Nitrobenzene-d5	99	H	30-130		02/19/2016 01:19
2-Fluorobiphenyl	99	H	30-130		02/19/2016 01:19
2,4,6-Tribromophenol	58	H	16-130		02/19/2016 01:19
4-Terphenyl-d14	112	H	30-130		02/19/2016 01:19

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC17	116931
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 15:48
Acenaphthylene	ND	H	0.25	1	02/19/2016 15:48
Acetochlor	ND	H	0.25	1	02/19/2016 15:48
Anthracene	ND	H	0.25	1	02/19/2016 15:48
Benzidine	ND	H	1.3	1	02/19/2016 15:48
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 15:48
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 15:48
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 15:48
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 15:48
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 15:48
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 15:48
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 15:48
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 15:48
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 15:48
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 15:48
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 15:48
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 15:48
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 15:48
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 15:48
4-Chloroaniline	ND	H	0.50	1	02/19/2016 15:48
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 15:48
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 15:48
2-Chlorophenol	ND	H	0.25	1	02/19/2016 15:48
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 15:48
Chrysene	ND	H	0.25	1	02/19/2016 15:48
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 15:48
Dibenzofuran	ND	H	0.25	1	02/19/2016 15:48
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 15:48
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 15:48
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 15:48
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 15:48
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 15:48
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 15:48
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 15:48
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 15:48
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 15:48
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 15:48

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC17	116931
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 15:48
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 15:48
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 15:48
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 15:48
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 15:48
Fluoranthene	ND	H	0.25	1	02/19/2016 15:48
Fluorene	ND	H	0.25	1	02/19/2016 15:48
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 15:48
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 15:48
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 15:48
Hexachloroethane	ND	H	0.25	1	02/19/2016 15:48
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 15:48
Isophorone	ND	H	0.25	1	02/19/2016 15:48
2-Methylnaphthalene	7.4	H	0.25	1	02/19/2016 15:48
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 15:48
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 15:48
Naphthalene	ND	H	0.25	1	02/19/2016 15:48
2-Nitroaniline	ND	H	1.3	1	02/19/2016 15:48
3-Nitroaniline	ND	H	1.3	1	02/19/2016 15:48
4-Nitroaniline	ND	H	1.3	1	02/19/2016 15:48
Nitrobenzene	ND	H	0.25	1	02/19/2016 15:48
2-Nitrophenol	ND	H	1.3	1	02/19/2016 15:48
4-Nitrophenol	ND	H	1.3	1	02/19/2016 15:48
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 15:48
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 15:48
Pentachlorophenol	ND	H	1.3	1	02/19/2016 15:48
Phenanthrene	ND	H	0.25	1	02/19/2016 15:48
Phenol	ND	H	0.25	1	02/19/2016 15:48
Pyrene	ND	H	0.25	1	02/19/2016 15:48
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 15:48
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 15:48
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 15:48

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	GC17	116931

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	92	H	30-130		02/19/2016 15:48
Phenol-d5	82	H	30-130		02/19/2016 15:48
Nitrobenzene-d5	105	H	30-130		02/19/2016 15:48
2-Fluorobiphenyl	74	H	30-130		02/19/2016 15:48
2,4,6-Tribromophenol	43	H	16-130		02/19/2016 15:48
4-Terphenyl-d14	80	H	30-130		02/19/2016 15:48

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 09:33
Acenaphthylene	ND	H	0.25	1	02/19/2016 09:33
Acetochlor	ND	H	0.25	1	02/19/2016 09:33
Anthracene	ND	H	0.25	1	02/19/2016 09:33
Benzidine	ND	H	1.3	1	02/19/2016 09:33
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 09:33
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 09:33
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 09:33
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 09:33
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 09:33
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 09:33
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 09:33
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 09:33
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 09:33
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 09:33
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 09:33
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 09:33
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 09:33
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 09:33
4-Chloroaniline	ND	H	0.50	1	02/19/2016 09:33
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 09:33
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 09:33
2-Chlorophenol	ND	H	0.25	1	02/19/2016 09:33
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 09:33
Chrysene	ND	H	0.25	1	02/19/2016 09:33
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 09:33
Dibenzofuran	ND	H	0.25	1	02/19/2016 09:33
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 09:33
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 09:33
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 09:33
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 09:33
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 09:33
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 09:33
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 09:33
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 09:33
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 09:33
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 09:33

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/17/16-2/19/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 09:33
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 09:33
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 09:33
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 09:33
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 09:33
Fluoranthene	ND	H	0.25	1	02/19/2016 09:33
Fluorene	ND	H	0.25	1	02/19/2016 09:33
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 09:33
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 09:33
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 09:33
Hexachloroethane	ND	H	0.25	1	02/19/2016 09:33
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 09:33
Isophorone	ND	H	0.25	1	02/19/2016 09:33
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 09:33
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 09:33
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 09:33
Naphthalene	ND	H	0.25	1	02/19/2016 09:33
2-Nitroaniline	ND	H	1.3	1	02/19/2016 09:33
3-Nitroaniline	ND	H	1.3	1	02/19/2016 09:33
4-Nitroaniline	ND	H	1.3	1	02/19/2016 09:33
Nitrobenzene	ND	H	0.25	1	02/19/2016 09:33
2-Nitrophenol	ND	H	1.3	1	02/19/2016 09:33
4-Nitrophenol	ND	H	1.3	1	02/19/2016 09:33
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 09:33
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 09:33
Pentachlorophenol	ND	H	1.3	1	02/19/2016 09:33
Phenanthrene	ND	H	0.25	1	02/19/2016 09:33
Phenol	ND	H	0.25	1	02/19/2016 09:33
Pyrene	ND	H	0.25	1	02/19/2016 09:33
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 09:33
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 09:33
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 09:33

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/17/16-2/19/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	GC17	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	112	H	30-130		02/19/2016 09:33
Phenol-d5	101	H	30-130		02/19/2016 09:33
Nitrobenzene-d5	90	H	30-130		02/19/2016 09:33
2-Fluorobiphenyl	82	H	30-130		02/19/2016 09:33
2,4,6-Tribromophenol	67	H	16-130		02/19/2016 09:33
4-Terphenyl-d14	97	H	30-130		02/19/2016 09:33

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10*	1601239-061A	Soil	01/05/2016 15:20	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	2.0	1	02/19/2016 10:02
Acenaphthylene	ND	H	2.0	1	02/19/2016 10:02
Acetochlor	ND	H	2.0	1	02/19/2016 10:02
Anthracene	ND	H	2.0	1	02/19/2016 10:02
Benzidine	ND	H	10	1	02/19/2016 10:02
Benzo (a) anthracene	ND	H	2.0	1	02/19/2016 10:02
Benzo (a) pyrene	ND	H	2.0	1	02/19/2016 10:02
Benzo (b) fluoranthene	ND	H	2.0	1	02/19/2016 10:02
Benzo (g,h,i) perylene	ND	H	2.0	1	02/19/2016 10:02
Benzo (k) fluoranthene	ND	H	2.0	1	02/19/2016 10:02
Benzyl Alcohol	ND	H	10	1	02/19/2016 10:02
1,1-Biphenyl	ND	H	2.0	1	02/19/2016 10:02
Bis (2-chloroethoxy) Methane	ND	H	2.0	1	02/19/2016 10:02
Bis (2-chloroethyl) Ether	ND	H	2.0	1	02/19/2016 10:02
Bis (2-chloroisopropyl) Ether	ND	H	2.0	1	02/19/2016 10:02
Bis (2-ethylhexyl) Adipate	ND	H	2.0	1	02/19/2016 10:02
Bis (2-ethylhexyl) Phthalate	ND	H	2.0	1	02/19/2016 10:02
4-Bromophenyl Phenyl Ether	ND	H	2.0	1	02/19/2016 10:02
Butylbenzyl Phthalate	ND	H	2.0	1	02/19/2016 10:02
4-Chloroaniline	ND	H	4.0	1	02/19/2016 10:02
4-Chloro-3-methylphenol	ND	H	2.0	1	02/19/2016 10:02
2-Chloronaphthalene	ND	H	2.0	1	02/19/2016 10:02
2-Chlorophenol	ND	H	2.0	1	02/19/2016 10:02
4-Chlorophenyl Phenyl Ether	ND	H	2.0	1	02/19/2016 10:02
Chrysene	ND	H	2.0	1	02/19/2016 10:02
Dibenzo (a,h) anthracene	ND	H	2.0	1	02/19/2016 10:02
Dibenzofuran	ND	H	2.0	1	02/19/2016 10:02
Di-n-butyl Phthalate	ND	H	2.0	1	02/19/2016 10:02
1,2-Dichlorobenzene	ND	H	2.0	1	02/19/2016 10:02
1,3-Dichlorobenzene	ND	H	2.0	1	02/19/2016 10:02
1,4-Dichlorobenzene	ND	H	2.0	1	02/19/2016 10:02
3,3-Dichlorobenzidine	ND	H	4.0	1	02/19/2016 10:02
2,4-Dichlorophenol	ND	H	2.0	1	02/19/2016 10:02
Diethyl Phthalate	ND	H	2.0	1	02/19/2016 10:02
2,4-Dimethylphenol	ND	H	2.0	1	02/19/2016 10:02
Dimethyl Phthalate	ND	H	2.0	1	02/19/2016 10:02
4,6-Dinitro-2-methylphenol	ND	H	10	1	02/19/2016 10:02

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10*	1601239-061A	Soil	01/05/2016 15:20	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	50	1	02/19/2016 10:02
2,4-Dinitrotoluene	ND	H	2.0	1	02/19/2016 10:02
2,6-Dinitrotoluene	ND	H	2.0	1	02/19/2016 10:02
Di-n-octyl Phthalate	ND	H	4.0	1	02/19/2016 10:02
1,2-Diphenylhydrazine	ND	H	2.0	1	02/19/2016 10:02
Fluoranthene	ND	H	2.0	1	02/19/2016 10:02
Fluorene	ND	H	2.0	1	02/19/2016 10:02
Hexachlorobenzene	ND	H	2.0	1	02/19/2016 10:02
Hexachlorobutadiene	ND	H	2.0	1	02/19/2016 10:02
Hexachlorocyclopentadiene	ND	H	10	1	02/19/2016 10:02
Hexachloroethane	ND	H	2.0	1	02/19/2016 10:02
Indeno (1,2,3-cd) pyrene	ND	H	2.0	1	02/19/2016 10:02
Isophorone	ND	H	2.0	1	02/19/2016 10:02
2-Methylnaphthalene	ND	H	2.0	1	02/19/2016 10:02
2-Methylphenol (o-Cresol)	ND	H	2.0	1	02/19/2016 10:02
3 & 4-Methylphenol (m,p-Cresol)	ND	H	2.0	1	02/19/2016 10:02
Naphthalene	ND	H	2.0	1	02/19/2016 10:02
2-Nitroaniline	ND	H	10	1	02/19/2016 10:02
3-Nitroaniline	ND	H	10	1	02/19/2016 10:02
4-Nitroaniline	ND	H	10	1	02/19/2016 10:02
Nitrobenzene	ND	H	2.0	1	02/19/2016 10:02
2-Nitrophenol	ND	H	10	1	02/19/2016 10:02
4-Nitrophenol	ND	H	10	1	02/19/2016 10:02
N-Nitrosodiphenylamine	ND	H	2.0	1	02/19/2016 10:02
N-Nitrosodi-n-propylamine	ND	H	2.0	1	02/19/2016 10:02
Pentachlorophenol	ND	H	10	1	02/19/2016 10:02
Phenanthrene	2.3	H	2.0	1	02/19/2016 10:02
Phenol	ND	H	2.0	1	02/19/2016 10:02
Pyrene	ND	H	2.0	1	02/19/2016 10:02
1,2,4-Trichlorobenzene	ND	H	2.0	1	02/19/2016 10:02
2,4,5-Trichlorophenol	ND	H	2.0	1	02/19/2016 10:02
2,4,6-Trichlorophenol	ND	H	2.0	1	02/19/2016 10:02

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	GC17	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	104	H	30-130		02/19/2016 10:02
Phenol-d5	87	H	30-130		02/19/2016 10:02
Nitrobenzene-d5	87	H	30-130		02/19/2016 10:02
2-Fluorobiphenyl	84	H	30-130		02/19/2016 10:02
2,4,6-Tribromophenol	70	H	16-130		02/19/2016 10:02
4-Terphenyl-d14	86	H	30-130		02/19/2016 10:02

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20*	1601239-063A	Soil	01/05/2016 15:30	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	1.2	5	02/19/2016 10:31
Acenaphthylene	ND	H	1.2	5	02/19/2016 10:31
Acetochlor	ND	H	1.2	5	02/19/2016 10:31
Anthracene	ND	H	1.2	5	02/19/2016 10:31
Benzidine	ND	H	6.5	5	02/19/2016 10:31
Benzo (a) anthracene	ND	H	1.2	5	02/19/2016 10:31
Benzo (a) pyrene	ND	H	1.2	5	02/19/2016 10:31
Benzo (b) fluoranthene	ND	H	1.2	5	02/19/2016 10:31
Benzo (g,h,i) perylene	ND	H	1.2	5	02/19/2016 10:31
Benzo (k) fluoranthene	ND	H	1.2	5	02/19/2016 10:31
Benzyl Alcohol	ND	H	6.5	5	02/19/2016 10:31
1,1-Biphenyl	ND	H	1.2	5	02/19/2016 10:31
Bis (2-chloroethoxy) Methane	ND	H	1.2	5	02/19/2016 10:31
Bis (2-chloroethyl) Ether	ND	H	1.2	5	02/19/2016 10:31
Bis (2-chloroisopropyl) Ether	ND	H	1.2	5	02/19/2016 10:31
Bis (2-ethylhexyl) Adipate	ND	H	1.2	5	02/19/2016 10:31
Bis (2-ethylhexyl) Phthalate	ND	H	1.2	5	02/19/2016 10:31
4-Bromophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 10:31
Butylbenzyl Phthalate	ND	H	1.2	5	02/19/2016 10:31
4-Chloroaniline	ND	H	2.5	5	02/19/2016 10:31
4-Chloro-3-methylphenol	ND	H	1.2	5	02/19/2016 10:31
2-Chloronaphthalene	ND	H	1.2	5	02/19/2016 10:31
2-Chlorophenol	ND	H	1.2	5	02/19/2016 10:31
4-Chlorophenyl Phenyl Ether	ND	H	1.2	5	02/19/2016 10:31
Chrysene	ND	H	1.2	5	02/19/2016 10:31
Dibenzo (a,h) anthracene	ND	H	1.2	5	02/19/2016 10:31
Dibenzofuran	ND	H	1.2	5	02/19/2016 10:31
Di-n-butyl Phthalate	ND	H	1.2	5	02/19/2016 10:31
1,2-Dichlorobenzene	ND	H	1.2	5	02/19/2016 10:31
1,3-Dichlorobenzene	ND	H	1.2	5	02/19/2016 10:31
1,4-Dichlorobenzene	ND	H	1.2	5	02/19/2016 10:31
3,3-Dichlorobenzidine	ND	H	2.5	5	02/19/2016 10:31
2,4-Dichlorophenol	ND	H	1.2	5	02/19/2016 10:31
Diethyl Phthalate	ND	H	1.2	5	02/19/2016 10:31
2,4-Dimethylphenol	ND	H	1.2	5	02/19/2016 10:31
Dimethyl Phthalate	ND	H	1.2	5	02/19/2016 10:31
4,6-Dinitro-2-methylphenol	ND	H	6.5	5	02/19/2016 10:31

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/17/16-2/19/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20*	1601239-063A	Soil	01/05/2016 15:30	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	32	5	02/19/2016 10:31
2,4-Dinitrotoluene	ND	H	1.2	5	02/19/2016 10:31
2,6-Dinitrotoluene	ND	H	1.2	5	02/19/2016 10:31
Di-n-octyl Phthalate	ND	H	2.5	5	02/19/2016 10:31
1,2-Diphenylhydrazine	ND	H	1.2	5	02/19/2016 10:31
Fluoranthene	ND	H	1.2	5	02/19/2016 10:31
Fluorene	1.6	H	1.2	5	02/19/2016 10:31
Hexachlorobenzene	ND	H	1.2	5	02/19/2016 10:31
Hexachlorobutadiene	ND	H	1.2	5	02/19/2016 10:31
Hexachlorocyclopentadiene	ND	H	6.5	5	02/19/2016 10:31
Hexachloroethane	ND	H	1.2	5	02/19/2016 10:31
Indeno (1,2,3-cd) pyrene	ND	H	1.2	5	02/19/2016 10:31
Isophorone	ND	H	1.2	5	02/19/2016 10:31
2-Methylnaphthalene	41	H	1.2	5	02/19/2016 10:31
2-Methylphenol (o-Cresol)	ND	H	1.2	5	02/19/2016 10:31
3 & 4-Methylphenol (m,p-Cresol)	ND	H	1.2	5	02/19/2016 10:31
Naphthalene	19	H	1.2	5	02/19/2016 10:31
2-Nitroaniline	ND	H	6.5	5	02/19/2016 10:31
3-Nitroaniline	ND	H	6.5	5	02/19/2016 10:31
4-Nitroaniline	ND	H	6.5	5	02/19/2016 10:31
Nitrobenzene	ND	H	1.2	5	02/19/2016 10:31
2-Nitrophenol	ND	H	6.5	5	02/19/2016 10:31
4-Nitrophenol	ND	H	6.5	5	02/19/2016 10:31
N-Nitrosodiphenylamine	ND	H	1.2	5	02/19/2016 10:31
N-Nitrosodi-n-propylamine	ND	H	1.2	5	02/19/2016 10:31
Pentachlorophenol	ND	H	6.5	5	02/19/2016 10:31
Phenanthrene	3.4	H	1.2	5	02/19/2016 10:31
Phenol	ND	H	1.2	5	02/19/2016 10:31
Pyrene	ND	H	1.2	5	02/19/2016 10:31
1,2,4-Trichlorobenzene	ND	H	1.2	5	02/19/2016 10:31
2,4,5-Trichlorophenol	ND	H	1.2	5	02/19/2016 10:31
2,4,6-Trichlorophenol	ND	H	1.2	5	02/19/2016 10:31

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	GC17	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	100	H	30-130		02/19/2016 10:31
Phenol-d5	90	H	30-130		02/19/2016 10:31
Nitrobenzene-d5	137	SH	30-130		02/19/2016 10:31
2-Fluorobiphenyl	78	H	30-130		02/19/2016 10:31
2,4,6-Tribromophenol	67	H	16-130		02/19/2016 10:31
4-Terphenyl-d14	87	H	30-130		02/19/2016 10:31

Analyst(s): HK

Analytical Comments: c4



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20*	1601239-076A	Soil	01/07/2016 14:30	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 10:59
Acenaphthylene	ND	H	0.25	1	02/19/2016 10:59
Acetochlor	ND	H	0.25	1	02/19/2016 10:59
Anthracene	ND	H	0.25	1	02/19/2016 10:59
Benzidine	ND	H	1.3	1	02/19/2016 10:59
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 10:59
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 10:59
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 10:59
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 10:59
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 10:59
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 10:59
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 10:59
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 10:59
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 10:59
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 10:59
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 10:59
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 10:59
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 10:59
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 10:59
4-Chloroaniline	ND	H	0.50	1	02/19/2016 10:59
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 10:59
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 10:59
2-Chlorophenol	ND	H	0.25	1	02/19/2016 10:59
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 10:59
Chrysene	ND	H	0.25	1	02/19/2016 10:59
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 10:59
Dibenzofuran	ND	H	0.25	1	02/19/2016 10:59
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 10:59
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 10:59
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 10:59
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 10:59
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 10:59
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 10:59
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 10:59
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 10:59
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 10:59
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 10:59

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Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3550B
Date Prepared: 2/17/16-2/19/16	Analytical Method: SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20*	1601239-076A	Soil	01/07/2016 14:30	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 10:59
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 10:59
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 10:59
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 10:59
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 10:59
Fluoranthene	ND	H	0.25	1	02/19/2016 10:59
Fluorene	ND	H	0.25	1	02/19/2016 10:59
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 10:59
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 10:59
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 10:59
Hexachloroethane	ND	H	0.25	1	02/19/2016 10:59
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 10:59
Isophorone	ND	H	0.25	1	02/19/2016 10:59
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 10:59
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 10:59
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 10:59
Naphthalene	ND	H	0.25	1	02/19/2016 10:59
2-Nitroaniline	ND	H	1.3	1	02/19/2016 10:59
3-Nitroaniline	ND	H	1.3	1	02/19/2016 10:59
4-Nitroaniline	ND	H	1.3	1	02/19/2016 10:59
Nitrobenzene	ND	H	0.25	1	02/19/2016 10:59
2-Nitrophenol	ND	H	1.3	1	02/19/2016 10:59
4-Nitrophenol	ND	H	1.3	1	02/19/2016 10:59
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 10:59
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 10:59
Pentachlorophenol	ND	H	1.3	1	02/19/2016 10:59
Phenanthrene	0.40	H	0.25	1	02/19/2016 10:59
Phenol	ND	H	0.25	1	02/19/2016 10:59
Pyrene	ND	H	0.25	1	02/19/2016 10:59
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 10:59
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 10:59
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 10:59

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20*	1601239-076A	Soil	01/07/2016 14:30	GC17	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	102	H	30-130		02/19/2016 10:59
Phenol-d5	90	H	30-130		02/19/2016 10:59
Nitrobenzene-d5	78	H	30-130		02/19/2016 10:59
2-Fluorobiphenyl	73	H	30-130		02/19/2016 10:59
2,4,6-Tribromophenol	54	H	16-130		02/19/2016 10:59
4-Terphenyl-d14	82	H	30-130		02/19/2016 10:59

Analyst(s): HK



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	5.0	20	02/19/2016 16:16
Acenaphthylene	ND	H	5.0	20	02/19/2016 16:16
Acetochlor	ND	H	5.0	20	02/19/2016 16:16
Anthracene	ND	H	5.0	20	02/19/2016 16:16
Benzidine	ND	H	26	20	02/19/2016 16:16
Benzo (a) anthracene	ND	H	5.0	20	02/19/2016 16:16
Benzo (a) pyrene	ND	H	5.0	20	02/19/2016 16:16
Benzo (b) fluoranthene	ND	H	5.0	20	02/19/2016 16:16
Benzo (g,h,i) perylene	ND	H	5.0	20	02/19/2016 16:16
Benzo (k) fluoranthene	ND	H	5.0	20	02/19/2016 16:16
Benzyl Alcohol	ND	H	26	20	02/19/2016 16:16
1,1-Biphenyl	ND	H	5.0	20	02/19/2016 16:16
Bis (2-chloroethoxy) Methane	ND	H	5.0	20	02/19/2016 16:16
Bis (2-chloroethyl) Ether	ND	H	5.0	20	02/19/2016 16:16
Bis (2-chloroisopropyl) Ether	ND	H	5.0	20	02/19/2016 16:16
Bis (2-ethylhexyl) Adipate	ND	H	5.0	20	02/19/2016 16:16
Bis (2-ethylhexyl) Phthalate	ND	H	5.0	20	02/19/2016 16:16
4-Bromophenyl Phenyl Ether	ND	H	5.0	20	02/19/2016 16:16
Butylbenzyl Phthalate	ND	H	5.0	20	02/19/2016 16:16
4-Chloroaniline	ND	H	10	20	02/19/2016 16:16
4-Chloro-3-methylphenol	ND	H	5.0	20	02/19/2016 16:16
2-Chloronaphthalene	ND	H	5.0	20	02/19/2016 16:16
2-Chlorophenol	ND	H	5.0	20	02/19/2016 16:16
4-Chlorophenyl Phenyl Ether	ND	H	5.0	20	02/19/2016 16:16
Chrysene	ND	H	5.0	20	02/19/2016 16:16
Dibenzo (a,h) anthracene	ND	H	5.0	20	02/19/2016 16:16
Dibenzofuran	ND	H	5.0	20	02/19/2016 16:16
Di-n-butyl Phthalate	ND	H	5.0	20	02/19/2016 16:16
1,2-Dichlorobenzene	ND	H	5.0	20	02/19/2016 16:16
1,3-Dichlorobenzene	ND	H	5.0	20	02/19/2016 16:16
1,4-Dichlorobenzene	ND	H	5.0	20	02/19/2016 16:16
3,3-Dichlorobenzidine	ND	H	10	20	02/19/2016 16:16
2,4-Dichlorophenol	ND	H	5.0	20	02/19/2016 16:16
Diethyl Phthalate	ND	H	5.0	20	02/19/2016 16:16
2,4-Dimethylphenol	ND	H	5.0	20	02/19/2016 16:16
Dimethyl Phthalate	ND	H	5.0	20	02/19/2016 16:16
4,6-Dinitro-2-methylphenol	ND	H	26	20	02/19/2016 16:16

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC17	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	130	20	02/19/2016 16:16
2,4-Dinitrotoluene	ND	H	5.0	20	02/19/2016 16:16
2,6-Dinitrotoluene	ND	H	5.0	20	02/19/2016 16:16
Di-n-octyl Phthalate	ND	H	10	20	02/19/2016 16:16
1,2-Diphenylhydrazine	ND	H	5.0	20	02/19/2016 16:16
Fluoranthene	ND	H	5.0	20	02/19/2016 16:16
Fluorene	ND	H	5.0	20	02/19/2016 16:16
Hexachlorobenzene	ND	H	5.0	20	02/19/2016 16:16
Hexachlorobutadiene	ND	H	5.0	20	02/19/2016 16:16
Hexachlorocyclopentadiene	ND	H	26	20	02/19/2016 16:16
Hexachloroethane	ND	H	5.0	20	02/19/2016 16:16
Indeno (1,2,3-cd) pyrene	ND	H	5.0	20	02/19/2016 16:16
Isophorone	ND	H	5.0	20	02/19/2016 16:16
2-Methylnaphthalene	22	H	5.0	20	02/19/2016 16:16
2-Methylphenol (o-Cresol)	ND	H	5.0	20	02/19/2016 16:16
3 & 4-Methylphenol (m,p-Cresol)	ND	H	5.0	20	02/19/2016 16:16
Naphthalene	ND	H	5.0	20	02/19/2016 16:16
2-Nitroaniline	ND	H	26	20	02/19/2016 16:16
3-Nitroaniline	ND	H	26	20	02/19/2016 16:16
4-Nitroaniline	ND	H	26	20	02/19/2016 16:16
Nitrobenzene	ND	H	5.0	20	02/19/2016 16:16
2-Nitrophenol	ND	H	26	20	02/19/2016 16:16
4-Nitrophenol	ND	H	26	20	02/19/2016 16:16
N-Nitrosodiphenylamine	ND	H	5.0	20	02/19/2016 16:16
N-Nitrosodi-n-propylamine	ND	H	5.0	20	02/19/2016 16:16
Pentachlorophenol	ND	H	26	20	02/19/2016 16:16
Phenanthrene	ND	H	5.0	20	02/19/2016 16:16
Phenol	ND	H	5.0	20	02/19/2016 16:16
Pyrene	ND	H	5.0	20	02/19/2016 16:16
1,2,4-Trichlorobenzene	ND	H	5.0	20	02/19/2016 16:16
2,4,5-Trichlorophenol	ND	H	5.0	20	02/19/2016 16:16
2,4,6-Trichlorophenol	ND	H	5.0	20	02/19/2016 16:16

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Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3550B
Date Prepared: 2/17/16-2/19/16 **Analytical Method:** SW8270C
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	GC17	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	116	H	30-130		02/19/2016 16:16
Phenol-d5	91	H	30-130		02/19/2016 16:16
Nitrobenzene-d5	103	H	30-130		02/19/2016 16:16
2-Fluorobiphenyl	85	H	30-130		02/19/2016 16:16
2,4,6-Tribromophenol	59	H	16-130		02/19/2016 16:16
4-Terphenyl-d14	101	H	30-130		02/19/2016 16:16

Analyst(s): HK



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3050B
Date Prepared: 2/12/16	Analytical Method: SW6020
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62-20'	1601239-031A	Soil	01/05/2016 11:30	ICP-MS2	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 19:52
Chromium	56	0.50	1	02/17/2016 19:52
Lead	6.6	0.50	1	02/17/2016 19:52
Nickel	48	0.50	1	02/17/2016 19:52
Zinc	36	5.0	1	02/17/2016 19:52

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	02/17/2016 19:52

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-4'	1601239-040A	Soil	01/05/2016 13:40	ICP-MS2	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 19:58
Chromium	100	0.50	1	02/17/2016 19:58
Lead	6.7	0.50	1	02/17/2016 19:58
Nickel	150	0.50	1	02/17/2016 19:58
Zinc	71	5.0	1	02/17/2016 19:58

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	02/17/2016 19:58

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65-23'	1601239-045A	Soil	01/05/2016 14:15	ICP-MS2	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/19/2016 17:41
Chromium	46	0.50	1	02/19/2016 17:41
Lead	2.2	0.50	1	02/19/2016 17:41
Nickel	40	0.50	1	02/19/2016 17:41
Zinc	20	5.0	1	02/19/2016 17:41

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	02/19/2016 17:41

Analyst(s): AC

(Cont.)



Analytical Report

Client: CKG Environmental **WorkOrder:** 1601239
Date Received: 1/8/16 19:53 **Extraction Method:** SW3050B
Date Prepared: 2/12/16 **Analytical Method:** SW6020
Project: Owens Brockway, 3600 Alameda Ave., Oakland **Unit:** mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-67-11'	1601239-054A	Soil	01/06/2016 14:15	ICP-MS2	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/18/2016 17:44
Chromium	63		0.50	1	02/18/2016 17:44
Lead	6.3		0.50	1	02/18/2016 17:44
Nickel	61		0.50	1	02/18/2016 17:44
Zinc	38		5.0	1	02/18/2016 17:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	105		70-130		02/18/2016 17:44
Analyst(s): BBO					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-10'	1601239-061A	Soil	01/05/2016 15:20	ICP-MS2	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	0.37		0.25	1	02/18/2016 17:50
Chromium	60		0.50	1	02/18/2016 17:50
Lead	8.1		0.50	1	02/18/2016 17:50
Nickel	71		0.50	1	02/18/2016 17:50
Zinc	68		5.0	1	02/18/2016 17:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	107		70-130		02/18/2016 17:50
Analyst(s): BBO					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-69-20'	1601239-063A	Soil	01/05/2016 15:30	ICP-MS2	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/17/2016 20:17
Chromium	40		0.50	1	02/17/2016 20:17
Lead	1.9		0.50	1	02/17/2016 20:17
Nickel	43		0.50	1	02/17/2016 20:17
Zinc	20		5.0	1	02/17/2016 20:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		02/17/2016 20:17
Analyst(s): BBO					

(Cont.)



Analytical Report

Client: CKG Environmental	WorkOrder: 1601239
Date Received: 1/8/16 19:53	Extraction Method: SW3050B
Date Prepared: 2/12/16	Analytical Method: SW6020
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-71-20'	1601239-076A	Soil	01/07/2016 14:30	ICP-MS2	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/18/2016 17:56
Chromium	60		0.50	1	02/18/2016 17:56
Lead	3.2		0.50	1	02/18/2016 17:56
Nickel	76		0.50	1	02/18/2016 17:56
Zinc	32		5.0	1	02/18/2016 17:56
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	110		70-130		02/18/2016 17:56
<u>Analyst(s):</u> BBO					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60A-15'	1601239-091A	Soil	01/08/2016 14:45	ICP-MS2	116644
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cadmium	ND		0.25	1	02/17/2016 20:35
Chromium	63		0.50	1	02/17/2016 20:35
Lead	4.5		0.50	1	02/17/2016 20:35
Nickel	95		0.50	1	02/17/2016 20:35
Zinc	40		5.0	1	02/17/2016 20:35
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		02/17/2016 20:35
<u>Analyst(s):</u> BBO					



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/12/16	BatchID:	116647
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC5A	Analytical Method:	SW8082
Matrix:	Soil	Unit:	mg/kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116647 1601239-091AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.157	0.050	0.15	-	105	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0472	0.0482		0.050	94	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		ND<0.25	NR	NR	-	NR	

Surrogate Recovery

Decachlorobiphenyl	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/12/16	BatchID:	116646
Date Analyzed:	2/16/16	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116646

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0491	0.0050	0.050	-	98	53-116
Benzene	ND	0.0514	0.0050	0.050	-	103	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.251	0.050	0.20	-	126	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0473	0.0050	0.050	-	95	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0491	0.0040	0.050	-	98	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0539	0.0040	0.050	-	108	58-135
1,1-Dichloroethene	ND	0.0492	0.0050	0.050	-	98	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 2/12/16	BatchID: 116646
Date Analyzed: 2/16/16	Extraction Method: SW5030B
Instrument: GC16	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-116646

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0519	0.0050	0.050	-	104	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0512	0.0050	0.050	-	102	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0513	0.0050	0.050	-	103	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0502	0.0050	0.050	-	100	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	95	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 2/12/16	BatchID: 116646
Date Analyzed: 2/16/16	Extraction Method: SW5030B
Instrument: GC16	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-116646

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.125	0.126		0.12	100	101	70-130
Toluene-d8	0.140	0.138		0.12	112	110	70-130
4-BFB	0.0126	0.0153		0.012	101	122	70-130
Benzene-d6	0.113	0.121		0.10	113	121	60-140
Ethylbenzene-d10	0.111	0.134		0.10	111	134	60-140
1,2-DCB-d4	0.0734	0.0855		0.10	73	85	60-140



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/16/16	BatchID:	116758
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.68	0.25	5	-	94	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.94	0.25	5	-	99	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.26	0.25	5	-	105	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.89	0.25	5	-	98	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/16/16	BatchID:	116758
Date Analyzed:	2/17/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.76	0.25	5	-	95	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.12	1.3	5	-	82	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.59	0.25	5	-	92	30-130
Pentachlorophenol	ND	5.52	1.3	5	-	110	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	5.25	0.25	5	-	105	30-130
Pyrene	ND	5.34	0.25	5	-	107	30-130
1,2,4-Trichlorobenzene	ND	5.06	0.25	5	-	101	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 2/16/16	BatchID: 116758
Date Analyzed: 2/17/16	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-116758 1602558-008AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	5.91	5.46		5	118	109	30-130
Phenol-d5	5.45	5.05		5	109	101	30-130
Nitrobenzene-d5	4.89	4.79		5	98	96	30-130
2-Fluorobiphenyl	4.20	4.23		5	84	85	30-130
2,4,6-Tribromophenol	4.56	4.56		5	91	91	16-130
4-Terphenyl-d14	4.92	4.78		5	98	96	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<200	NR	NR	-	NR	
4-Chloro-3-methylphenol	NR	NR		ND<200	NR	NR	-	NR	
2-Chlorophenol	NR	NR		ND<200	NR	NR	-	NR	
1,4-Dichlorobenzene	NR	NR		ND<200	NR	NR	-	NR	
2,4-Dinitrotoluene	NR	NR		ND<200	NR	NR	-	NR	
4-Nitrophenol	NR	NR		ND<1000	NR	NR	-	NR	
N-Nitrosodi-n-propylamine	NR	NR		ND<200	NR	NR	-	NR	
Pentachlorophenol	NR	NR		ND<1000	NR	NR	-	NR	
Phenol	NR	NR		ND<200	NR	NR	-	NR	
Pyrene	NR	NR		ND<200	NR	NR	-	NR	
1,2,4-Trichlorobenzene	NR	NR		ND<200	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	
Phenol-d5	NR	NR			NR	NR	-	NR	
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/17/16	BatchID:	116852
Date Analyzed:	2/18/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.72	0.25	5	-	94	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	5.00	0.25	5	-	100	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.42	0.25	5	-	108	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.95	0.25	5	-	99	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/17/16	BatchID:	116852
Date Analyzed:	2/18/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.85	0.25	5	-	97	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.31	1.3	5	-	86	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.60	0.25	5	-	92	30-130
Pentachlorophenol	ND	5.74	1.3	5	-	115	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	5.32	0.25	5	-	106	30-130
Pyrene	ND	5.45	0.25	5	-	109	30-130
1,2,4-Trichlorobenzene	ND	5.05	0.25	5	-	101	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 2/17/16	BatchID: 116852
Date Analyzed: 2/18/16	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	6.05	5.29		5	121	106	30-130
Phenol-d5	5.50	5.09		5	110	102	30-130
Nitrobenzene-d5	4.87	4.76		5	97	95	30-130
2-Fluorobiphenyl	4.22	5.66		5	84	113	30-130
2,4,6-Tribromophenol	4.26	4.43		5	85	89	16-130
4-Terphenyl-d14	4.89	4.84		5	98	97	30-130



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/19/16	BatchID:	116931
Date Analyzed:	2/19/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116931 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.00	0.25	5	-	80	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.38	0.25	5	-	88	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	4.54	0.25	5	-	91	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.26	0.25	5	-	85	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

(Cont.)



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/19/16	BatchID:	116931
Date Analyzed:	2/19/16	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116931 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	3.99	0.25	5	-	80	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	3.17	1.3	5	-	63	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.77	0.25	5	-	75	30-130
Pentachlorophenol	ND	4.20	1.3	5	-	84	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.35	0.25	5	-	87	30-130
Pyrene	ND	4.27	0.25	5	-	85	30-130
1,2,4-Trichlorobenzene	ND	4.50	0.25	5	-	90	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental	WorkOrder: 1601239
Date Prepared: 2/19/16	BatchID: 116931
Date Analyzed: 2/19/16	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID: MB/LCS-116931 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	4.88	4.46		5	98	89	30-130
Phenol-d5	4.30	3.97		5	86	79	30-130
Nitrobenzene-d5	3.98	3.81		5	80	76	30-130
2-Fluorobiphenyl	3.54	3.51		5	71	70	30-130
2,4,6-Tribromophenol	2.54	2.57		5	51	51	16-130
4-Terphenyl-d14	3.93	3.71		5	79	74	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<20	NR	NR	-	NR	
4-Chloro-3-methylphenol	NR	NR		ND<20	NR	NR	-	NR	
2-Chlorophenol	NR	NR		ND<20	NR	NR	-	NR	
1,4-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	
2,4-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	
4-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	
N-Nitrosodi-n-propylamine	NR	NR		ND<20	NR	NR	-	NR	
Pentachlorophenol	NR	NR		ND<100	NR	NR	-	NR	
Phenol	NR	NR		ND<20	NR	NR	-	NR	
Pyrene	NR	NR		ND<20	NR	NR	-	NR	
1,2,4-Trichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	
Phenol-d5	NR	NR			NR	NR	-	NR	
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	



Quality Control Report

Client:	CKG Environmental	WorkOrder:	1601239
Date Prepared:	2/12/16	BatchID:	116644
Date Analyzed:	2/16/16	Extraction Method:	SW3050B
Instrument:	ICP-MS1	Analytical Method:	SW6020
Matrix:	Soil	Unit:	mg/Kg
Project:	Owens Brockway, 3600 Alameda Ave., Oakland	Sample ID:	MB/LCS-116644 1602477-002AMS/MSD 1602477-002APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.2	0.25	50	-	100	75-125
Chromium	ND	51.3	0.50	50	-	103	75-125
Lead	ND	53.5	0.50	50	-	107	75-125
Nickel	ND	52.3	0.50	50	-	105	75-125
Zinc	ND	530	5.0	500	-	106	75-125

Surrogate Recovery

Terbium	542	548		500	108	110	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.8	50.7	50	ND	102	101	75-125	0.197	20
Chromium	76.9	79.9	50	ND	154,F8	160,F8	75-125	3.86	20
Lead	55.8	56.7	50	ND	112	113	75-125	1.49	20
Nickel	82.9	83.2	50	ND	166,F8	166,F8	75-125	0	20
Zinc	569	558	500	ND	114	112	75-125	1.81	20

Surrogate Recovery

Terbium	553	542	500		111	108	70-130	2.01	20
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Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	53.7	50	ND	107	80-120
Nickel	56.0	50	ND	112	80-120



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601239 **A** ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Christina Kennedy
 CKG Environmental
 P.O. Box 246
 St. Helena, CA 94574
 (707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
 cc/3rd Party:
 PO:
 ProjectNo: Owens Brockway, 3600 Alameda Ave.,
 Oakland

Bill to:
 Accounts Payable
 CKG Environmental
 808 Zinfindel Lane
 St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 01/08/2016
Date Logged: 01/08/2016
Date Add-On: 02/11/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601239-003	B-77-GW	Water	1/4/2016 13:45	<input type="checkbox"/>	A	A	A	A									
1601239-031	B-62-20'	Soil	1/5/2016 11:30	<input type="checkbox"/>	A	A	A	A									
1601239-040	B-65-4'	Soil	1/5/2016 13:40	<input type="checkbox"/>	A	A	A	A									
1601239-045	B-65-23'	Soil	1/5/2016 14:15	<input type="checkbox"/>	A	A	A	A									
1601239-054	B-67-11'	Soil	1/6/2016 14:15	<input type="checkbox"/>	A	A	A	A									
1601239-061	B-69-10'	Soil	1/5/2016 15:20	<input type="checkbox"/>	A	A	A	A									
1601239-063	B-69-20'	Soil	1/5/2016 15:30	<input type="checkbox"/>	A	A	A	A									
1601239-076	B-71-20'	Soil	1/7/2016 14:30	<input type="checkbox"/>	A	A	A	A									
1601239-091	B-60A-15'	Soil	1/8/2016 14:45	<input type="checkbox"/>	A	A	A	A									

Test Legend:

1	8082_PCB_S	2	8260B_S	3	8270_S	4	LUFTMS_6020_TTLC_S
5		6		7		8	
9		10		11		12	

Project Manager:

Prepared by: Agustina Venegas

Add-On Prepared By: Maria Venegas

Comments: addon's added 2/11/16.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments: addon's added 2/11/16.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-031A	B-62-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/5/2016 11:30	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601239-040A	B-65-4'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/5/2016 13:40	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601239-045A	B-65-23'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/5/2016 14:15	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601239-054A	B-67-11'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/6/2016 14:15	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601239-061A	B-69-10'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/5/2016 15:20	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601239

Project: Owens Brockway, 3600 Alameda Ave., Oakland

Client Contact: Christina Kennedy

Date Logged: 1/8/2016

Comments: addon's added 2/11/16.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601239-061A	B-69-10'	Soil	SW8270C (SVOCs)	1	4OZ GJ	1/5/2016 15:20	5 days		<input type="checkbox"/>	
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601239-063A	B-69-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/5/2016 15:30	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601239-076A	B-71-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/7/2016 14:30	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601239-091A	B-60A-15'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/8/2016 14:45	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental
 Company: CKG Environmental
PO Box 246 St. Helena, CA 94574
 Tele: (707) 967-8080 E-Mail: c.kennedy@geologist.com
 Project #: _____ Project Name: Owens Brackway
 Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			Analysis Request																						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other	BTEX & TPH as Gas (8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH mo (8015)	HOLD					
B-63-15'	B-63	1/6/16	1110	1					X					X	X																	X					
B-63-20'	↓	↓	1120											X	X																X					X	
B-64-8'	B-64		1455											X	X																X						
B-64-12'	↓		1505											X	X																X						
B-64-15'	↓		1515											X	X																X					X	
B-64-20'	↓	↓	1520											X	X																X					X	
B-65-4'	B-65	1/5/16	1340											X	X															X							
B-65-11'	↓		1350											X	X															X							
B-65-15'	↓		1355											X	X															X						X	
B-65-20'	↓		1400	✓										X	X															X						X	
B-65-6W	↓	↓	1440	4	X									X	X														X							X	

**MAI client: MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/1° _____ COMMENTS: page 4

GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < 2 _____



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental

Company: CKG Environmental
PO Box 246, St. Helena, CA 94574

Tele: (707) 967-8086 E-Mail: ckkennedy@geologist.com

Project #: _____ Project Name: Owens Brackway

Project Location: 3600 Alameda Ave, Oakland Purchase Order# _____

Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPHmd (8015)	HOLD						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																		Other					
B-65-23'	B-65	1/5/16	1415	1						X					X	X																					
B-65A-10'	B-65A	1/7/16	1615	1											X	X																					
B-65A-15'	↓	↓	1625	1											X	X																					
B-65A-20'	↓	1/8/16	750	1											X	X																					
B-66-5'	B-66	1/6/16	1135	1											X	X																				X	
B-66-10'	↓		1145	1											X	X																					
B-66-15'	↓		1155	1											X	X																					
B-66-20'	↓		1205	1											X	X																					
B-67-7'	B-67		1410	1											X	X																					
B-67-11'	↓		1415	1											X	X																					
B-67-15'	↓	↓	1425	1											X	X																					

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>1/8/16</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/I* _____
 COMMENTS: page 5
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < _____



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY

GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Christina Kennedy Bill To: CKG Environmental

Company: CKG Environmental

PO Box 246, St. Helena, CA 94574

Tele: (707) 967-8080

E-Mail: ckennedy@geologist.com

Project #:

Project Name: Owens Backway

Project Location: 3600 Alameda Ave, Oakland

Purchase Order #

Sampler Signature:

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX									METHOD PRESERVED	BTEX & TPH as Gas (802.1 (8015)) TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's, Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acute CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SYOCs)	EPA 8270 SIM / 8310 (PAHs / PNA's)	CAMEL Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPHmo (8015)	HOLD				
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																	Other			
B-70-20'	B-70	1/7/16	1050	1						X																								
B-70-GW	↓	↓	1445	4	X																													X
B-70A-5'	B-70A		1520	1						X																								X
B-70A-10'	↓		1530	1																														X
B-70A-15'	↓		1540	1																														X
B-70A-20'	↓		1550	1																														X
B-71-5'	B-71		1350	1																														X
B-71-10'	↓		1410	1																														X
B-71-15'	↓		1420	1																														X
B-71-20'	↓	↓	1430	↓																														X
B-70B-5'	B-70B	1/8/16	840	1						X																								X

***MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date: 1/8/16	Time: 1630	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/° _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 COMMENTS: page 7
 VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH < 2 _____



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601569

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owen's Brockway

Project Received: 01/19/2016

Analytical Report reviewed & approved for release on 01/25/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Analytical Qualifiers

H samples were analyzed out of holding time
S Surrogate spike recovery outside accepted recovery limits
b1 aqueous sample that contains greater than ~1 vol. % sediment
b6 lighter than water immiscible sheen/product is present
c1 surrogate recovery outside of the control limits due to the dilution of the sample.
c2 surrogate recovery outside of the control limits due to matrix interference.
d7 strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9 no recognizable pattern
e2 diesel range compounds are significant; no recognizable pattern
e3 aged diesel is significant
e4 gasoline range compounds are significant.
e7 oil range compounds are significant
e8 kerosene/kerosene range/jet fuel range
e11 stoddard solvent/mineral spirit (?)

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-5'	1601569-001A	Soil	01/11/2016 14:50	GC19	115713

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	3.5	1.0	1	01/23/2016 22:33
MTBE	---	0.050	1	01/23/2016 22:33
Benzene	---	0.0050	1	01/23/2016 22:33
Toluene	---	0.0050	1	01/23/2016 22:33
Ethylbenzene	---	0.0050	1	01/23/2016 22:33
Xylenes	---	0.015	1	01/23/2016 22:33
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	107	70-130		01/23/2016 22:33

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	560	100	100	01/20/2016 13:54
MTBE	---	5.0	100	01/20/2016 13:54
Benzene	---	0.50	100	01/20/2016 13:54
Toluene	---	0.50	100	01/20/2016 13:54
Ethylbenzene	---	0.50	100	01/20/2016 13:54
Xylenes	---	1.5	100	01/20/2016 13:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	102	70-130		01/20/2016 13:54

Analyst(s): TD

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56A-5'	1601569-006A	Soil	01/12/2016 08:25	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 15:39
MTBE	---	0.050	1	01/21/2016 15:39
Benzene	---	0.0050	1	01/21/2016 15:39
Toluene	---	0.0050	1	01/21/2016 15:39
Ethylbenzene	---	0.0050	1	01/21/2016 15:39
Xylenes	---	0.015	1	01/21/2016 15:39
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	112	70-130		01/21/2016 15:39

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56A-10'	1601569-007A	Soil	01/12/2016 08:30	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 16:10
MTBE	---	0.050	1	01/21/2016 16:10
Benzene	---	0.0050	1	01/21/2016 16:10
Toluene	---	0.0050	1	01/21/2016 16:10
Ethylbenzene	---	0.0050	1	01/21/2016 16:10
Xylenes	---	0.015	1	01/21/2016 16:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	112	70-130		01/21/2016 16:10

Analyst(s): IA



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56B-20'	1601569-013A	Soil	01/12/2016 07:50	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 16:41
MTBE	---	0.050	1	01/21/2016 16:41
Benzene	---	0.0050	1	01/21/2016 16:41
Toluene	---	0.0050	1	01/21/2016 16:41
Ethylbenzene	---	0.0050	1	01/21/2016 16:41
Xylenes	---	0.015	1	01/21/2016 16:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/21/2016 16:41

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1500	100	100	01/21/2016 17:12
MTBE	---	5.0	100	01/21/2016 17:12
Benzene	---	0.50	100	01/21/2016 17:12
Toluene	---	0.50	100	01/21/2016 17:12
Ethylbenzene	---	0.50	100	01/21/2016 17:12
Xylenes	---	1.5	100	01/21/2016 17:12
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	105	70-130		01/21/2016 17:12

Analyst(s): IA

Analytical Comments: d7



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57B-5'	1601569-019A	Soil	01/12/2016 09:00	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 18:44
MTBE	---	0.050	1	01/21/2016 18:44
Benzene	---	0.0050	1	01/21/2016 18:44
Toluene	---	0.0050	1	01/21/2016 18:44
Ethylbenzene	---	0.0050	1	01/21/2016 18:44
Xylenes	---	0.015	1	01/21/2016 18:44
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/21/2016 18:44

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-3'	1601569-023A	Soil	01/14/2016 15:25	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	370	20	20	01/20/2016 17:29
MTBE	---	1.0	20	01/20/2016 17:29
Benzene	---	0.10	20	01/20/2016 17:29
Toluene	---	0.10	20	01/20/2016 17:29
Ethylbenzene	---	0.10	20	01/20/2016 17:29
Xylenes	---	0.30	20	01/20/2016 17:29
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	90	70-130		01/20/2016 17:29

Analyst(s): TD

Analytical Comments: d7



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-10'	1601569-024A	Soil	01/14/2016 15:30	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 19:15
MTBE	---	0.050	1	01/21/2016 19:15
Benzene	---	0.0050	1	01/21/2016 19:15
Toluene	---	0.0050	1	01/21/2016 19:15
Ethylbenzene	---	0.0050	1	01/21/2016 19:15
Xylenes	---	0.015	1	01/21/2016 19:15
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		01/21/2016 19:15

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-15'	1601569-025A	Soil	01/14/2016 15:35	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 20:16
MTBE	---	0.050	1	01/21/2016 20:16
Benzene	---	0.0050	1	01/21/2016 20:16
Toluene	---	0.0050	1	01/21/2016 20:16
Ethylbenzene	---	0.0050	1	01/21/2016 20:16
Xylenes	---	0.015	1	01/21/2016 20:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		01/21/2016 20:16

Analyst(s): IA



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-20'	1601569-026A	Soil	01/14/2016 15:40	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 20:46
MTBE	---	0.050	1	01/21/2016 20:46
Benzene	---	0.0050	1	01/21/2016 20:46
Toluene	---	0.0050	1	01/21/2016 20:46
Ethylbenzene	---	0.0050	1	01/21/2016 20:46
Xylenes	---	0.015	1	01/21/2016 20:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	109	70-130		01/21/2016 20:46

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-5'	1601569-027A	Soil	01/11/2016 13:40	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 21:17
MTBE	---	0.050	1	01/21/2016 21:17
Benzene	---	0.0050	1	01/21/2016 21:17
Toluene	---	0.0050	1	01/21/2016 21:17
Ethylbenzene	---	0.0050	1	01/21/2016 21:17
Xylenes	---	0.015	1	01/21/2016 21:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	108	70-130		01/21/2016 21:17

Analyst(s): IA



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 21:47
MTBE	---	0.050	1	01/21/2016 21:47
Benzene	---	0.0050	1	01/21/2016 21:47
Toluene	---	0.0050	1	01/21/2016 21:47
Ethylbenzene	---	0.0050	1	01/21/2016 21:47
Xylenes	---	0.015	1	01/21/2016 21:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	105	70-130		01/21/2016 21:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-20'	1601569-030A	Soil	01/11/2016 14:05	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 22:18
MTBE	---	0.050	1	01/21/2016 22:18
Benzene	---	0.0050	1	01/21/2016 22:18
Toluene	---	0.0050	1	01/21/2016 22:18
Ethylbenzene	---	0.0050	1	01/21/2016 22:18
Xylenes	---	0.015	1	01/21/2016 22:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	109	70-130		01/21/2016 22:18

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-5'	1601569-031A	Soil	01/11/2016 14:20	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 22:48
MTBE	---	0.050	1	01/21/2016 22:48
Benzene	---	0.0050	1	01/21/2016 22:48
Toluene	---	0.0050	1	01/21/2016 22:48
Ethylbenzene	---	0.0050	1	01/21/2016 22:48
Xylenes	---	0.015	1	01/21/2016 22:48
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	103	70-130		01/21/2016 22:48

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-10'	1601569-032A	Soil	01/11/2016 14:25	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 23:49
MTBE	---	0.050	1	01/21/2016 23:49
Benzene	---	0.0050	1	01/21/2016 23:49
Toluene	---	0.0050	1	01/21/2016 23:49
Ethylbenzene	---	0.0050	1	01/21/2016 23:49
Xylenes	---	0.015	1	01/21/2016 23:49
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	107	70-130		01/21/2016 23:49

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-15'	1601569-033A	Soil	01/11/2016 14:30	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	57	20	20	01/20/2016 22:32
MTBE	---	1.0	20	01/20/2016 22:32
Benzene	---	0.10	20	01/20/2016 22:32
Toluene	---	0.10	20	01/20/2016 22:32
Ethylbenzene	---	0.10	20	01/20/2016 22:32
Xylenes	---	0.30	20	01/20/2016 22:32

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	116	70-130	01/20/2016 22:32

Analyst(s): TD

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-15'	1601569-036A	Soil	01/12/2016 10:30	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 00:50
MTBE	---	0.050	1	01/22/2016 00:50
Benzene	---	0.0050	1	01/22/2016 00:50
Toluene	---	0.0050	1	01/22/2016 00:50
Ethylbenzene	---	0.0050	1	01/22/2016 00:50
Xylenes	---	0.015	1	01/22/2016 00:50

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	115	70-130	01/22/2016 00:50

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	590	20	20	01/20/2016 23:33
MTBE	---	1.0	20	01/20/2016 23:33
Benzene	---	0.10	20	01/20/2016 23:33
Toluene	---	0.10	20	01/20/2016 23:33
Ethylbenzene	---	0.10	20	01/20/2016 23:33
Xylenes	---	0.30	20	01/20/2016 23:33

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
2-Fluorotoluene	64	S	70-130	01/20/2016 23:33

Analyst(s): TD

Analytical Comments: d7,d9,c1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-5'	1601569-038A	Soil	01/14/2016 08:15	GC19	115518

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 01:34
MTBE	---	0.050	1	01/21/2016 01:34
Benzene	---	0.0050	1	01/21/2016 01:34
Toluene	---	0.0050	1	01/21/2016 01:34
Ethylbenzene	---	0.0050	1	01/21/2016 01:34
Xylenes	---	0.015	1	01/21/2016 01:34

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	99	70-130	01/21/2016 01:34

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-10'	1601569-039A	Soil	01/14/2016 08:20	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 02:04
MTBE	---	0.050	1	01/21/2016 02:04
Benzene	---	0.0050	1	01/21/2016 02:04
Toluene	---	0.0050	1	01/21/2016 02:04
Ethylbenzene	---	0.0050	1	01/21/2016 02:04
Xylenes	---	0.015	1	01/21/2016 02:04
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	118	70-130		01/21/2016 02:04

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-15'	1601569-040A	Soil	01/14/2016 08:30	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 02:34
MTBE	---	0.050	1	01/21/2016 02:34
Benzene	---	0.0050	1	01/21/2016 02:34
Toluene	---	0.0050	1	01/21/2016 02:34
Ethylbenzene	---	0.0050	1	01/21/2016 02:34
Xylenes	---	0.015	1	01/21/2016 02:34
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		01/21/2016 02:34

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61B-5'	1601569-042A	Soil	01/11/2016 12:35	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 03:05
MTBE	---	0.050	1	01/21/2016 03:05
Benzene	---	0.0050	1	01/21/2016 03:05
Toluene	---	0.0050	1	01/21/2016 03:05
Ethylbenzene	---	0.0050	1	01/21/2016 03:05
Xylenes	---	0.015	1	01/21/2016 03:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	117	70-130		01/21/2016 03:05

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61B-15'	1601569-044A	Soil	01/11/2016 12:55	GC7	115596

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 21:51
MTBE	---	0.050	1	01/21/2016 21:51
Benzene	---	0.0050	1	01/21/2016 21:51
Toluene	---	0.0050	1	01/21/2016 21:51
Ethylbenzene	---	0.0050	1	01/21/2016 21:51
Xylenes	---	0.015	1	01/21/2016 21:51
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	107	70-130		01/21/2016 21:51

Analyst(s): SS

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-4'	1601569-046A	Soil	01/13/2016 14:10	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 04:05
MTBE	---	0.050	1	01/21/2016 04:05
Benzene	---	0.0050	1	01/21/2016 04:05
Toluene	---	0.0050	1	01/21/2016 04:05
Ethylbenzene	---	0.0050	1	01/21/2016 04:05
Xylenes	---	0.015	1	01/21/2016 04:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	118	70-130		01/21/2016 04:05

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-10'	1601569-047A	Soil	01/13/2016 14:15	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 04:36
MTBE	---	0.050	1	01/21/2016 04:36
Benzene	---	0.0050	1	01/21/2016 04:36
Toluene	---	0.0050	1	01/21/2016 04:36
Ethylbenzene	---	0.0050	1	01/21/2016 04:36
Xylenes	---	0.015	1	01/21/2016 04:36
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	119	70-130		01/21/2016 04:36

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	800	100	100	01/21/2016 05:36
MTBE	---	5.0	100	01/21/2016 05:36
Benzene	---	0.50	100	01/21/2016 05:36
Toluene	---	0.50	100	01/21/2016 05:36
Ethylbenzene	---	0.50	100	01/21/2016 05:36
Xylenes	---	1.5	100	01/21/2016 05:36
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	91	70-130		01/21/2016 05:36

Analyst(s): TD

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-10'	1601569-051A	Soil	01/13/2016 15:15	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 06:37
MTBE	---	0.050	1	01/21/2016 06:37
Benzene	---	0.0050	1	01/21/2016 06:37
Toluene	---	0.0050	1	01/21/2016 06:37
Ethylbenzene	---	0.0050	1	01/21/2016 06:37
Xylenes	---	0.015	1	01/21/2016 06:37
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	113	70-130		01/21/2016 06:37

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-15'	1601569-052A	Soil	01/13/2016 15:20	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	630	200	200	01/22/2016 15:36
MTBE	---	10	200	01/22/2016 15:36
Benzene	---	1.0	200	01/22/2016 15:36
Toluene	---	1.0	200	01/22/2016 15:36
Ethylbenzene	---	1.0	200	01/22/2016 15:36
Xylenes	---	3.0	200	01/22/2016 15:36

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	86	70-130	01/22/2016 15:36

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	650	10	10	01/22/2016 18:40
MTBE	---	0.50	10	01/22/2016 18:40
Benzene	---	0.050	10	01/22/2016 18:40
Toluene	---	0.050	10	01/22/2016 18:40
Ethylbenzene	---	0.050	10	01/22/2016 18:40
Xylenes	---	0.15	10	01/22/2016 18:40

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	101	70-130	01/22/2016 18:40

Analyst(s): IA

Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-5'	1601569-054A	Soil	01/14/2016 09:25	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 03:32
MTBE	---	0.050	1	01/23/2016 03:32
Benzene	---	0.0050	1	01/23/2016 03:32
Toluene	---	0.0050	1	01/23/2016 03:32
Ethylbenzene	---	0.0050	1	01/23/2016 03:32
Xylenes	---	0.015	1	01/23/2016 03:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	97	70-130		01/23/2016 03:32

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-10'	1601569-055A	Soil	01/14/2016 09:30	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 04:31
MTBE	---	0.050	1	01/23/2016 04:31
Benzene	---	0.0050	1	01/23/2016 04:31
Toluene	---	0.0050	1	01/23/2016 04:31
Ethylbenzene	---	0.0050	1	01/23/2016 04:31
Xylenes	---	0.015	1	01/23/2016 04:31
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		01/23/2016 04:31

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-15'	1601569-056A	Soil	01/14/2016 09:40	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 05:01
MTBE	---	0.050	1	01/23/2016 05:01
Benzene	---	0.0050	1	01/23/2016 05:01
Toluene	---	0.0050	1	01/23/2016 05:01
Ethylbenzene	---	0.0050	1	01/23/2016 05:01
Xylenes	---	0.015	1	01/23/2016 05:01
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	96	70-130		01/23/2016 05:01

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-20'	1601569-057A	Soil	01/14/2016 09:50	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 05:30
MTBE	---	0.050	1	01/23/2016 05:30
Benzene	---	0.0050	1	01/23/2016 05:30
Toluene	---	0.0050	1	01/23/2016 05:30
Ethylbenzene	---	0.0050	1	01/23/2016 05:30
Xylenes	---	0.015	1	01/23/2016 05:30
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	87	70-130		01/23/2016 05:30

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62B-10'	1601569-059A	Soil	01/11/2016 10:10	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 06:00
MTBE	---	0.050	1	01/23/2016 06:00
Benzene	---	0.0050	1	01/23/2016 06:00
Toluene	---	0.0050	1	01/23/2016 06:00
Ethylbenzene	---	0.0050	1	01/23/2016 06:00
Xylenes	---	0.015	1	01/23/2016 06:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	103	70-130		01/23/2016 06:00

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62B-20'	1601569-061A	Soil	01/11/2016 10:30	GC19	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	290	50	50	01/23/2016 22:03
MTBE	---	2.5	50	01/23/2016 22:03
Benzene	---	0.25	50	01/23/2016 22:03
Toluene	---	0.25	50	01/23/2016 22:03
Ethylbenzene	---	0.25	50	01/23/2016 22:03
Xylenes	---	0.75	50	01/23/2016 22:03
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	111	70-130		01/23/2016 22:03

Analyst(s): TD

Analytical Comments: d7

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-5'	1601569-062A	Soil	01/11/2016 10:50	GC7	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	3.9	1.0	1	01/23/2016 13:36
MTBE	---	0.050	1	01/23/2016 13:36
Benzene	---	0.0050	1	01/23/2016 13:36
Toluene	---	0.0050	1	01/23/2016 13:36
Ethylbenzene	---	0.0050	1	01/23/2016 13:36
Xylenes	---	0.015	1	01/23/2016 13:36

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	101	70-130	01/23/2016 13:36

Analyst(s): IA **Analytical Comments:** d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-10'	1601569-063A	Soil	01/11/2016 11:00	GC7	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 14:07
MTBE	---	0.050	1	01/23/2016 14:07
Benzene	---	0.0050	1	01/23/2016 14:07
Toluene	---	0.0050	1	01/23/2016 14:07
Ethylbenzene	---	0.0050	1	01/23/2016 14:07
Xylenes	---	0.015	1	01/23/2016 14:07

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	98	70-130	01/23/2016 14:07

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-15'	1601569-064A	Soil	01/11/2016 11:10	GC3	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 15:25
MTBE	---	0.050	1	01/21/2016 15:25
Benzene	---	0.0050	1	01/21/2016 15:25
Toluene	---	0.0050	1	01/21/2016 15:25
Ethylbenzene	---	0.0050	1	01/21/2016 15:25
Xylenes	---	0.015	1	01/21/2016 15:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		01/21/2016 15:25

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-20'	1601569-065A	Soil	01/11/2016 11:20	GC7	115519

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 15:07
MTBE	---	0.050	1	01/23/2016 15:07
Benzene	---	0.0050	1	01/23/2016 15:07
Toluene	---	0.0050	1	01/23/2016 15:07
Ethylbenzene	---	0.0050	1	01/23/2016 15:07
Xylenes	---	0.015	1	01/23/2016 15:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		01/23/2016 15:07

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-5'	1601569-066A	Soil	01/14/2016 10:25	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 16:08
MTBE	---	0.050	1	01/23/2016 16:08
Benzene	---	0.0050	1	01/23/2016 16:08
Toluene	---	0.0050	1	01/23/2016 16:08
Ethylbenzene	---	0.0050	1	01/23/2016 16:08
Xylenes	---	0.015	1	01/23/2016 16:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	91	70-130		01/23/2016 16:08

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-10'	1601569-067A	Soil	01/14/2016 10:30	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 16:38
MTBE	---	0.050	1	01/23/2016 16:38
Benzene	---	0.0050	1	01/23/2016 16:38
Toluene	---	0.0050	1	01/23/2016 16:38
Ethylbenzene	---	0.0050	1	01/23/2016 16:38
Xylenes	---	0.015	1	01/23/2016 16:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		01/23/2016 16:38

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-15'	1601569-068A	Soil	01/14/2016 10:35	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 21:10
MTBE	---	0.050	1	01/23/2016 21:10
Benzene	---	0.0050	1	01/23/2016 21:10
Toluene	---	0.0050	1	01/23/2016 21:10
Ethylbenzene	---	0.0050	1	01/23/2016 21:10
Xylenes	---	0.015	1	01/23/2016 21:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	97	70-130		01/23/2016 21:10

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC19	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2100	200	200	01/22/2016 19:41
MTBE	---	10	200	01/22/2016 19:41
Benzene	---	1.0	200	01/22/2016 19:41
Toluene	---	1.0	200	01/22/2016 19:41
Ethylbenzene	---	1.0	200	01/22/2016 19:41
Xylenes	---	3.0	200	01/22/2016 19:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	120	70-130		01/22/2016 19:41

Analyst(s): IA

Analytical Comments: d7,d9

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-5'	1601569-070A	Soil	01/14/2016 11:00	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 21:40
MTBE	---	0.050	1	01/23/2016 21:40
Benzene	---	0.0050	1	01/23/2016 21:40
Toluene	---	0.0050	1	01/23/2016 21:40
Ethylbenzene	---	0.0050	1	01/23/2016 21:40
Xylenes	---	0.015	1	01/23/2016 21:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		01/23/2016 21:40

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-10'	1601569-071A	Soil	01/14/2016 11:05	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 22:10
MTBE	---	0.050	1	01/23/2016 22:10
Benzene	---	0.0050	1	01/23/2016 22:10
Toluene	---	0.0050	1	01/23/2016 22:10
Ethylbenzene	---	0.0050	1	01/23/2016 22:10
Xylenes	---	0.015	1	01/23/2016 22:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	108	70-130		01/23/2016 22:10

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-15'	1601569-072A	Soil	01/14/2016 11:15	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 23:10
MTBE	---	0.050	1	01/23/2016 23:10
Benzene	---	0.0050	1	01/23/2016 23:10
Toluene	---	0.0050	1	01/23/2016 23:10
Ethylbenzene	---	0.0050	1	01/23/2016 23:10
Xylenes	---	0.015	1	01/23/2016 23:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	105	70-130		01/23/2016 23:10

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20'	1601569-073A	Soil	01/14/2016 11:25	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1000	200	200	01/25/2016 13:41
MTBE	---	10	200	01/25/2016 13:41
Benzene	---	1.0	200	01/25/2016 13:41
Toluene	---	1.0	200	01/25/2016 13:41
Ethylbenzene	---	1.0	200	01/25/2016 13:41
Xylenes	---	3.0	200	01/25/2016 13:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorotoluene	35	S	70-130	01/25/2016 13:41

Analyst(s): TD

Analytical Comments: d7,d9,c1

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-5'	1601569-074A	Soil	01/14/2016 12:50	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/24/2016 01:40
MTBE	---	0.050	1	01/24/2016 01:40
Benzene	---	0.0050	1	01/24/2016 01:40
Toluene	---	0.0050	1	01/24/2016 01:40
Ethylbenzene	---	0.0050	1	01/24/2016 01:40
Xylenes	---	0.015	1	01/24/2016 01:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	100	70-130		01/24/2016 01:40

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-10'	1601569-075A	Soil	01/14/2016 12:55	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/24/2016 02:10
MTBE	---	0.050	1	01/24/2016 02:10
Benzene	---	0.0050	1	01/24/2016 02:10
Toluene	---	0.0050	1	01/24/2016 02:10
Ethylbenzene	---	0.0050	1	01/24/2016 02:10
Xylenes	---	0.015	1	01/24/2016 02:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	104	70-130		01/24/2016 02:10

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-15'	1601569-076A	Soil	01/14/2016 13:00	GC7	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/24/2016 02:40
MTBE	---	0.050	1	01/24/2016 02:40
Benzene	---	0.0050	1	01/24/2016 02:40
Toluene	---	0.0050	1	01/24/2016 02:40
Ethylbenzene	---	0.0050	1	01/24/2016 02:40
Xylenes	---	0.015	1	01/24/2016 02:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	103	70-130		01/24/2016 02:40

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-20'	1601569-077A	Soil	01/14/2016 13:10	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 12:55
MTBE	---	0.050	1	01/23/2016 12:55
Benzene	---	0.0050	1	01/23/2016 12:55
Toluene	---	0.0050	1	01/23/2016 12:55
Ethylbenzene	---	0.0050	1	01/23/2016 12:55
Xylenes	---	0.015	1	01/23/2016 12:55
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	98	70-130		01/23/2016 12:55

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-15'	1601569-081A	Soil	01/11/2016 09:25	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 14:08
MTBE	---	0.050	1	01/23/2016 14:08
Benzene	---	0.0050	1	01/23/2016 14:08
Toluene	---	0.0050	1	01/23/2016 14:08
Ethylbenzene	---	0.0050	1	01/23/2016 14:08
Xylenes	---	0.015	1	01/23/2016 14:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	91	70-130		01/23/2016 14:08

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	2600	200	200	01/22/2016 16:06
MTBE	---	10	200	01/22/2016 16:06
Benzene	---	1.0	200	01/22/2016 16:06
Toluene	---	1.0	200	01/22/2016 16:06
Ethylbenzene	---	1.0	200	01/22/2016 16:06
Xylenes	---	3.0	200	01/22/2016 16:06
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	89	70-130		01/22/2016 16:06

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-5'	1601569-083A	Soil	01/11/2016 08:10	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 14:38
MTBE	---	0.050	1	01/23/2016 14:38
Benzene	---	0.0050	1	01/23/2016 14:38
Toluene	---	0.0050	1	01/23/2016 14:38
Ethylbenzene	---	0.0050	1	01/23/2016 14:38
Xylenes	---	0.015	1	01/23/2016 14:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	96	70-130		01/23/2016 14:38

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-10'	1601569-084A	Soil	01/11/2016 08:20	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 15:07
MTBE	---	0.050	1	01/23/2016 15:07
Benzene	---	0.0050	1	01/23/2016 15:07
Toluene	---	0.0050	1	01/23/2016 15:07
Ethylbenzene	---	0.0050	1	01/23/2016 15:07
Xylenes	---	0.015	1	01/23/2016 15:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		01/23/2016 15:07

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-15'	1601569-085A	Soil	01/11/2016 08:30	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 16:07
MTBE	---	0.050	1	01/23/2016 16:07
Benzene	---	0.0050	1	01/23/2016 16:07
Toluene	---	0.0050	1	01/23/2016 16:07
Ethylbenzene	---	0.0050	1	01/23/2016 16:07
Xylenes	---	0.015	1	01/23/2016 16:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	89	70-130		01/23/2016 16:07

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-20'	1601569-086A	Soil	01/11/2016 08:40	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 16:37
MTBE	---	0.050	1	01/23/2016 16:37
Benzene	---	0.0050	1	01/23/2016 16:37
Toluene	---	0.0050	1	01/23/2016 16:37
Ethylbenzene	---	0.0050	1	01/23/2016 16:37
Xylenes	---	0.015	1	01/23/2016 16:37
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		01/23/2016 16:37

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-5'	1601569-091A	Soil	01/13/2016 09:45	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 13:22
MTBE	---	0.050	1	01/21/2016 13:22
Benzene	---	0.0050	1	01/21/2016 13:22
Toluene	---	0.0050	1	01/21/2016 13:22
Ethylbenzene	---	0.0050	1	01/21/2016 13:22
Xylenes	---	0.015	1	01/21/2016 13:22
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	97	70-130		01/21/2016 13:22

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-11'	1601569-092A	Soil	01/13/2016 09:50	GC3	115522

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	3.8	1.0	1	01/23/2016 20:04
MTBE	---	0.050	1	01/23/2016 20:04
Benzene	---	0.0050	1	01/23/2016 20:04
Toluene	---	0.0050	1	01/23/2016 20:04
Ethylbenzene	---	0.0050	1	01/23/2016 20:04
Xylenes	---	0.015	1	01/23/2016 20:04
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	85	70-130		01/23/2016 20:04

Analyst(s): TD

Analytical Comments: d7,(d2?)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-15'	1601569-093A	Soil	01/13/2016 10:00	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	4.9	1.0	1	01/25/2016 11:34
MTBE	---	0.050	1	01/25/2016 11:34
Benzene	---	0.0050	1	01/25/2016 11:34
Toluene	---	0.0050	1	01/25/2016 11:34
Ethylbenzene	---	0.0050	1	01/25/2016 11:34
Xylenes	---	0.015	1	01/25/2016 11:34

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	89	70-130	01/25/2016 11:34

Analyst(s): TD **Analytical Comments:** d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-20'	1601569-094A	Soil	01/13/2016 10:10	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 04:18
MTBE	---	0.050	1	01/23/2016 04:18
Benzene	---	0.0050	1	01/23/2016 04:18
Toluene	---	0.0050	1	01/23/2016 04:18
Ethylbenzene	---	0.0050	1	01/23/2016 04:18
Xylenes	---	0.015	1	01/23/2016 04:18

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	110	70-130	01/23/2016 04:18

Analyst(s): IA



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-5'	1601569-095A	Soil	01/13/2016 12:05	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 16:31
MTBE	---	0.050	1	01/23/2016 16:31
Benzene	---	0.0050	1	01/23/2016 16:31
Toluene	---	0.0050	1	01/23/2016 16:31
Ethylbenzene	---	0.0050	1	01/23/2016 16:31
Xylenes	---	0.015	1	01/23/2016 16:31
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		01/23/2016 16:31

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-10'	1601569-096A	Soil	01/13/2016 12:10	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 04:48
MTBE	---	0.050	1	01/23/2016 04:48
Benzene	---	0.0050	1	01/23/2016 04:48
Toluene	---	0.0050	1	01/23/2016 04:48
Ethylbenzene	---	0.0050	1	01/23/2016 04:48
Xylenes	---	0.015	1	01/23/2016 04:48
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	108	70-130		01/23/2016 04:48

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-15'	1601569-097A	Soil	01/13/2016 12:20	GC3	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 20:34
MTBE	---	0.050	1	01/23/2016 20:34
Benzene	---	0.0050	1	01/23/2016 20:34
Toluene	---	0.0050	1	01/23/2016 20:34
Ethylbenzene	---	0.0050	1	01/23/2016 20:34
Xylenes	---	0.015	1	01/23/2016 20:34
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	96	70-130		01/23/2016 20:34

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-20'	1601569-098A	Soil	01/13/2016 12:30	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 18:02
MTBE	---	0.050	1	01/23/2016 18:02
Benzene	---	0.0050	1	01/23/2016 18:02
Toluene	---	0.0050	1	01/23/2016 18:02
Ethylbenzene	---	0.0050	1	01/23/2016 18:02
Xylenes	---	0.015	1	01/23/2016 18:02
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	116	70-130		01/23/2016 18:02

Analyst(s): TD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-10'	1601569-100A	Soil	01/12/2016 15:05	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1.6	1.0	1	01/25/2016 13:07
MTBE	---	0.050	1	01/25/2016 13:07
Benzene	---	0.0050	1	01/25/2016 13:07
Toluene	---	0.0050	1	01/25/2016 13:07
Ethylbenzene	---	0.0050	1	01/25/2016 13:07
Xylenes	---	0.015	1	01/25/2016 13:07

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	109	70-130	01/25/2016 13:07

Analyst(s): TD **Analytical Comments:** d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-5'	1601569-102A	Soil	01/15/2016 07:45	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 21:43
MTBE	---	0.050	1	01/22/2016 21:43
Benzene	---	0.0050	1	01/22/2016 21:43
Toluene	---	0.0050	1	01/22/2016 21:43
Ethylbenzene	---	0.0050	1	01/22/2016 21:43
Xylenes	---	0.015	1	01/22/2016 21:43

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	115	70-130	01/22/2016 21:43

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-10'	1601569-103A	Soil	01/15/2016 07:50	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 22:14
MTBE	---	0.050	1	01/22/2016 22:14
Benzene	---	0.0050	1	01/22/2016 22:14
Toluene	---	0.0050	1	01/22/2016 22:14
Ethylbenzene	---	0.0050	1	01/22/2016 22:14
Xylenes	---	0.015	1	01/22/2016 22:14
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	112	70-130		01/22/2016 22:14

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-15'	1601569-104A	Soil	01/15/2016 08:00	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 22:44
MTBE	---	0.050	1	01/22/2016 22:44
Benzene	---	0.0050	1	01/22/2016 22:44
Toluene	---	0.0050	1	01/22/2016 22:44
Ethylbenzene	---	0.0050	1	01/22/2016 22:44
Xylenes	---	0.015	1	01/22/2016 22:44
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	111	70-130		01/22/2016 22:44

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-20'	1601569-105A	Soil	01/15/2016 08:10	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 23:15
MTBE	---	0.050	1	01/22/2016 23:15
Benzene	---	0.0050	1	01/22/2016 23:15
Toluene	---	0.0050	1	01/22/2016 23:15
Ethylbenzene	---	0.0050	1	01/22/2016 23:15
Xylenes	---	0.015	1	01/22/2016 23:15
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/22/2016 23:15

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65H-10'	1601569-107A	Soil	01/15/2016 09:05	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 23:45
MTBE	---	0.050	1	01/22/2016 23:45
Benzene	---	0.0050	1	01/22/2016 23:45
Toluene	---	0.0050	1	01/22/2016 23:45
Ethylbenzene	---	0.0050	1	01/22/2016 23:45
Xylenes	---	0.015	1	01/22/2016 23:45
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		01/22/2016 23:45

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65H-15'	1601569-108A	Soil	01/15/2016 09:10	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 01:47
MTBE	---	0.050	1	01/23/2016 01:47
Benzene	---	0.0050	1	01/23/2016 01:47
Toluene	---	0.0050	1	01/23/2016 01:47
Ethylbenzene	---	0.0050	1	01/23/2016 01:47
Xylenes	---	0.015	1	01/23/2016 01:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		01/23/2016 01:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65I-15'	1601569-112A	Soil	01/15/2016 10:20	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 02:17
MTBE	---	0.050	1	01/23/2016 02:17
Benzene	---	0.0050	1	01/23/2016 02:17
Toluene	---	0.0050	1	01/23/2016 02:17
Ethylbenzene	---	0.0050	1	01/23/2016 02:17
Xylenes	---	0.015	1	01/23/2016 02:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	112	70-130		01/23/2016 02:17

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65I-20'	1601569-113A	Soil	01/15/2016 10:30	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	67	10	10	01/23/2016 21:33
MTBE	---	0.50	10	01/23/2016 21:33
Benzene	---	0.050	10	01/23/2016 21:33
Toluene	---	0.050	10	01/23/2016 21:33
Ethylbenzene	---	0.050	10	01/23/2016 21:33
Xylenes	---	0.15	10	01/23/2016 21:33

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	92	70-130	01/23/2016 21:33

Analyst(s): TD

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-5'	1601569-114A	Soil	01/15/2016 13:45	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 03:48
MTBE	---	0.050	1	01/23/2016 03:48
Benzene	---	0.0050	1	01/23/2016 03:48
Toluene	---	0.0050	1	01/23/2016 03:48
Ethylbenzene	---	0.0050	1	01/23/2016 03:48
Xylenes	---	0.015	1	01/23/2016 03:48

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	115	70-130	01/23/2016 03:48

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-10'	1601569-115A	Soil	01/15/2016 13:50	GC7	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 18:34
MTBE	---	0.050	1	01/22/2016 18:34
Benzene	---	0.0050	1	01/22/2016 18:34
Toluene	---	0.0050	1	01/22/2016 18:34
Ethylbenzene	---	0.0050	1	01/22/2016 18:34
Xylenes	---	0.015	1	01/22/2016 18:34
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	104	70-130		01/22/2016 18:34

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-15'	1601569-116A	Soil	01/15/2016 13:55	GC19	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/21/2016 13:04
MTBE	---	0.050	1	01/21/2016 13:04
Benzene	---	0.0050	1	01/21/2016 13:04
Toluene	---	0.0050	1	01/21/2016 13:04
Ethylbenzene	---	0.0050	1	01/21/2016 13:04
Xylenes	---	0.015	1	01/21/2016 13:04
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	110	70-130		01/21/2016 13:04

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-20'	1601569-117A	Soil	01/15/2016 14:00	GC7	115523

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 19:05
MTBE	---	0.050	1	01/22/2016 19:05
Benzene	---	0.0050	1	01/22/2016 19:05
Toluene	---	0.0050	1	01/22/2016 19:05
Ethylbenzene	---	0.0050	1	01/22/2016 19:05
Xylenes	---	0.015	1	01/22/2016 19:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		01/22/2016 19:05

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-5'	1601569-118A	Soil	01/15/2016 11:55	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 20:05
MTBE	---	0.050	1	01/22/2016 20:05
Benzene	---	0.0050	1	01/22/2016 20:05
Toluene	---	0.0050	1	01/22/2016 20:05
Ethylbenzene	---	0.0050	1	01/22/2016 20:05
Xylenes	---	0.015	1	01/22/2016 20:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	106	70-130		01/22/2016 20:05

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-10'	1601569-119A	Soil	01/15/2016 12:00	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 20:35
MTBE	---	0.050	1	01/22/2016 20:35
Benzene	---	0.0050	1	01/22/2016 20:35
Toluene	---	0.0050	1	01/22/2016 20:35
Ethylbenzene	---	0.0050	1	01/22/2016 20:35
Xylenes	---	0.015	1	01/22/2016 20:35
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	104	70-130		01/22/2016 20:35

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-15'	1601569-120A	Soil	01/15/2016 12:20	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 21:05
MTBE	---	0.050	1	01/22/2016 21:05
Benzene	---	0.0050	1	01/22/2016 21:05
Toluene	---	0.0050	1	01/22/2016 21:05
Ethylbenzene	---	0.0050	1	01/22/2016 21:05
Xylenes	---	0.015	1	01/22/2016 21:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	102	70-130		01/22/2016 21:05

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-20'	1601569-121A	Soil	01/15/2016 12:40	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 22:06
MTBE	---	0.050	1	01/22/2016 22:06
Benzene	---	0.0050	1	01/22/2016 22:06
Toluene	---	0.0050	1	01/22/2016 22:06
Ethylbenzene	---	0.0050	1	01/22/2016 22:06
Xylenes	---	0.015	1	01/22/2016 22:06
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	98	70-130		01/22/2016 22:06

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-5'	1601569-122A	Soil	01/15/2016 13:10	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 23:07
MTBE	---	0.050	1	01/22/2016 23:07
Benzene	---	0.0050	1	01/22/2016 23:07
Toluene	---	0.0050	1	01/22/2016 23:07
Ethylbenzene	---	0.0050	1	01/22/2016 23:07
Xylenes	---	0.015	1	01/22/2016 23:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	98	70-130		01/22/2016 23:07

Analyst(s): IA

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-10'	1601569-123A	Soil	01/15/2016 13:15	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/22/2016 23:37
MTBE	---	0.050	1	01/22/2016 23:37
Benzene	---	0.0050	1	01/22/2016 23:37
Toluene	---	0.0050	1	01/22/2016 23:37
Ethylbenzene	---	0.0050	1	01/22/2016 23:37
Xylenes	---	0.015	1	01/22/2016 23:37
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		01/22/2016 23:37

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-15'	1601569-124A	Soil	01/15/2016 13:20	GC7	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/20/2016 12:16
MTBE	---	0.050	1	01/20/2016 12:16
Benzene	---	0.0050	1	01/20/2016 12:16
Toluene	---	0.0050	1	01/20/2016 12:16
Ethylbenzene	---	0.0050	1	01/20/2016 12:16
Xylenes	---	0.015	1	01/20/2016 12:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	106	70-130		01/20/2016 12:16

Analyst(s): HD

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16-1/22/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-20'	1601569-125A	Soil	01/15/2016 13:30	GC3	115525

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	01/23/2016 23:31
MTBE	---	0.050	1	01/23/2016 23:31
Benzene	---	0.0050	1	01/23/2016 23:31
Toluene	---	0.0050	1	01/23/2016 23:31
Ethylbenzene	---	0.0050	1	01/23/2016 23:31
Xylenes	---	0.015	1	01/23/2016 23:31

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	97	70-130	01/23/2016 23:31

Analyst(s): TD



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/21/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-GW	1601569-005A	Water	01/11/2016 15:30	GC3	115712

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1800	500	10	01/21/2016 17:28
MTBE	ND	50	10	01/21/2016 17:28
Benzene	ND	5.0	10	01/21/2016 17:28
Toluene	ND	5.0	10	01/21/2016 17:28
Ethylbenzene	ND	5.0	10	01/21/2016 17:28
Xylenes	ND	15	10	01/21/2016 17:28

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	87	70-130	01/21/2016 17:28

Analyst(s): IA

Analytical Comments: d7,b6,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-GW	1601569-018A	Water	01/12/2016 12:00	GC3	115628

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	110	50	1	01/21/2016 00:18
MTBE	ND	5.0	1	01/21/2016 00:18
Benzene	ND	0.50	1	01/21/2016 00:18
Toluene	ND	0.50	1	01/21/2016 00:18
Ethylbenzene	ND	0.50	1	01/21/2016 00:18
Xylenes	ND	1.5	1	01/21/2016 00:18

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	109	70-130	01/21/2016 00:18

Analyst(s): TD

Analytical Comments: d7,b1

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/21/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-GW	1601569-078A	Water	01/14/2016 13:20	GC3	115712

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	79	50	1	01/21/2016 19:29
MTBE	ND	5.0	1	01/21/2016 19:29
Benzene	ND	0.50	1	01/21/2016 19:29
Toluene	ND	0.50	1	01/21/2016 19:29
Ethylbenzene	ND	0.50	1	01/21/2016 19:29
Xylenes	ND	1.5	1	01/21/2016 19:29

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	96	70-130	01/21/2016 19:29

Analyst(s): IA

Analytical Comments: d7,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-GW	1601569-106A	Water	01/15/2016 08:25	GC3	115712

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	01/21/2016 19:59
MTBE	ND	5.0	1	01/21/2016 19:59
Benzene	ND	0.50	1	01/21/2016 19:59
Toluene	ND	0.50	1	01/21/2016 19:59
Ethylbenzene	ND	0.50	1	01/21/2016 19:59
Xylenes	ND	1.5	1	01/21/2016 19:59

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	96	70-130	01/21/2016 19:59

Analyst(s): IA

Analytical Comments: b1



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-5'	1601569-001A	Soil	01/11/2016 14:50	GC39A	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	22	1.0	1	01/20/2016 21:18
TPH-Motor Oil (C18-C36)	87	5.0	1	01/20/2016 21:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	103	70-130		01/20/2016 21:18
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2,e8		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC39B	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	230	1.0	1	01/22/2016 13:35
TPH-Motor Oil (C18-C36)	130	5.0	1	01/22/2016 13:35
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	118	70-130		01/22/2016 13:35
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e11,e2,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56A-5'	1601569-006A	Soil	01/12/2016 08:25	GC9a	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 04:53
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 04:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	80	70-130		01/21/2016 04:53
<u>Analyst(s):</u> TK				

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56A-10'	1601569-007A	Soil	01/12/2016 08:30	GC9a	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 05:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 05:32
Surrogates	REC (%)	Limits		
C9	81	70-130		01/21/2016 05:32

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-56B-20'	1601569-013A	Soil	01/12/2016 07:50	GC9b	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 13:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 13:22
Surrogates	REC (%)	Limits		
C9	94	70-130		01/20/2016 13:22

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC2B	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1400	100	100	01/21/2016 04:53
TPH-Motor Oil (C18-C36)	960	500	100	01/21/2016 04:53
Surrogates	REC (%)	Limits		
C9	102	70-130		01/21/2016 04:53

Analyst(s): TK

Analytical Comments: e11,e2,e7

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57B-5'	1601569-019A	Soil	01/12/2016 09:00	GC9b	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 23:43
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 23:43
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 23:43

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-3'	1601569-023A	Soil	01/14/2016 15:25	GC11A	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	360	10	10	01/21/2016 14:49
TPH-Motor Oil (C18-C36)	260	50	10	01/21/2016 14:49
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	99	70-130		01/21/2016 14:49

Analyst(s): TK Analytical Comments: e11,e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-10'	1601569-024A	Soil	01/14/2016 15:30	GC9a	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:01
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:01
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	78	70-130		01/20/2016 14:01

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-15'	1601569-025A	Soil	01/14/2016 15:35	GC9a	115510

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 12:05
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 12:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	80	70-130		01/20/2016 12:05

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-58A-20'	1601569-026A	Soil	01/14/2016 15:40	GC9a	115510

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 13:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 13:22
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	79	70-130		01/20/2016 13:22

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-5'	1601569-027A	Soil	01/11/2016 13:40	GC9a	115510

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 07:28
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 07:28
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	79	70-130		01/21/2016 07:28

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC11A	115510
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	82		10	10	01/20/2016 05:12
TPH-Motor Oil (C18-C36)	900		50	10	01/20/2016 05:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	96		70-130		01/20/2016 05:12
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-20'	1601569-030A	Soil	01/11/2016 14:05	GC9a	115510
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	3.0		1.0	1	01/20/2016 15:57
TPH-Motor Oil (C18-C36)	6.8		5.0	1	01/20/2016 15:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	74		70-130		01/20/2016 15:57
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-5'	1601569-031A	Soil	01/11/2016 14:20	GC9b	115510
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	3.2		1.0	1	01/20/2016 15:57
TPH-Motor Oil (C18-C36)	6.2		5.0	1	01/20/2016 15:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	92		70-130		01/20/2016 15:57
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-10'	1601569-032A	Soil	01/11/2016 14:25	GC9a	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	20	1.0	1	01/20/2016 15:18
TPH-Motor Oil (C18-C36)	31	5.0	1	01/20/2016 15:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	78	70-130		01/20/2016 15:18
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e3,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60-15'	1601569-033A	Soil	01/11/2016 14:30	GC11B	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	570	2.0	2	01/21/2016 12:32
TPH-Motor Oil (C18-C36)	340	10	2	01/21/2016 12:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	107	70-130		01/21/2016 12:32
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-15'	1601569-036A	Soil	01/12/2016 10:30	GC9b	115510

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.2	1.0	1	01/20/2016 15:18
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 15:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 15:18
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e2		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC9a	115510

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	600	10	10	01/21/2016 13:56
TPH-Motor Oil (C18-C36)	380	50	10	01/21/2016 13:56

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	93	70-130	01/21/2016 13:56

Analyst(s): TK Analytical Comments: e11,e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-5'	1601569-038A	Soil	01/14/2016 08:15	GC9a	115510

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 00:33
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 00:33

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	78	70-130	01/20/2016 00:33

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-10'	1601569-039A	Soil	01/14/2016 08:20	GC9b	115513

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 12:05
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 12:05

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	94	70-130	01/20/2016 12:05

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60C-15'	1601569-040A	Soil	01/14/2016 08:30	GC9b	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 12:43
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 12:43
Surrogates	REC (%)	Limits		
C9	94	70-130		01/20/2016 12:43

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61B-5'	1601569-042A	Soil	01/11/2016 12:35	GC9a	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 12:43
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 12:43
Surrogates	REC (%)	Limits		
C9	79	70-130		01/20/2016 12:43

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61B-15'	1601569-044A	Soil	01/11/2016 12:55	GC9b	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:01
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:01
Surrogates	REC (%)	Limits		
C9	94	70-130		01/20/2016 14:01

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-4'	1601569-046A	Soil	01/13/2016 14:10	GC11B	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	2.9	1.0	1	01/20/2016 05:12
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 05:12
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	108	70-130		01/20/2016 05:12
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-10'	1601569-047A	Soil	01/13/2016 14:15	GC39A	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	2.4	1.0	1	01/20/2016 12:05
TPH-Motor Oil (C18-C36)	8.5	5.0	1	01/20/2016 12:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	101	70-130		01/20/2016 12:05
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC2B	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	490	50	50	01/20/2016 16:09
TPH-Motor Oil (C18-C36)	330	250	50	01/20/2016 16:09
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 16:09
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e11,e2,e7		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-10'	1601569-051A	Soil	01/13/2016 15:15	GC11B	115513
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/20/2016 00:38
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/20/2016 00:38
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	108		70-130		01/20/2016 00:38
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-15'	1601569-052A	Soil	01/13/2016 15:20	GC11B	115513
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	320		10	10	01/21/2016 14:49
TPH-Motor Oil (C18-C36)	190		50	10	01/21/2016 14:49
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		01/21/2016 14:49
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e11,e2,e7				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC9a	115513
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	450		50	50	01/21/2016 10:42
TPH-Motor Oil (C18-C36)	310		250	50	01/21/2016 10:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	91		70-130		01/21/2016 10:42
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e2,e8,e7,e11				

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-5'	1601569-054A	Soil	01/14/2016 09:25	GC9b	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:40
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	93	70-130		01/20/2016 14:40

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-10'	1601569-055A	Soil	01/14/2016 09:30	GC39B	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 19:21
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 19:21
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	105	70-130		01/20/2016 19:21

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-15'	1601569-056A	Soil	01/14/2016 09:40	GC9a	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:40
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	82	70-130		01/20/2016 14:40

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61E-20'	1601569-057A	Soil	01/14/2016 09:50	GC11B	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 04:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 04:03
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	108	70-130		01/20/2016 04:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62B-10'	1601569-059A	Soil	01/11/2016 10:10	GC9a	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 21:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 21:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	84	70-130		01/20/2016 21:08

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62B-20'	1601569-061A	Soil	01/11/2016 10:30	GC39A	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	480	1.0	1	01/21/2016 11:50
TPH-Motor Oil (C18-C36)	240	5.0	1	01/21/2016 11:50
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	108	70-130		01/21/2016 11:50

Analyst(s): TK

Analytical Comments: e3,e8,e11,e7

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-5'	1601569-062A	Soil	01/11/2016 10:50	GC6A	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 10:43
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 10:43
Surrogates	REC (%)	Limits		
C9	100	70-130		01/20/2016 10:43

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-10'	1601569-063A	Soil	01/11/2016 11:00	GC9b	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 10:18
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 10:18
Surrogates	REC (%)	Limits		
C9	94	70-130		01/20/2016 10:18

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-15'	1601569-064A	Soil	01/11/2016 11:10	GC2B	115513

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 13:36
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 13:36
Surrogates	REC (%)	Limits		
C9	95	70-130		01/20/2016 13:36

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62C-20'	1601569-065A	Soil	01/11/2016 11:20	GC9b	115513

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 00:33
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 00:33
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 00:33

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-5'	1601569-066A	Soil	01/14/2016 10:25	GC9b	115514

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 09:39
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 09:39
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 09:39

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-10'	1601569-067A	Soil	01/14/2016 10:30	GC9b	115514

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 03:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 03:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 03:08

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-15'	1601569-068A	Soil	01/14/2016 10:35	GC2B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:52
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	96	70-130		01/20/2016 14:52

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC2B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1200	50	50	01/21/2016 01:04
TPH-Motor Oil (C18-C36)	890	250	50	01/21/2016 01:04
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	85	70-130		01/21/2016 01:04

Analyst(s): TK Analytical Comments: e11,e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-5'	1601569-070A	Soil	01/14/2016 11:00	GC39B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 18:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 18:03
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 18:03

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-10'	1601569-071A	Soil	01/14/2016 11:05	GC39B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 18:42
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 18:42
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 18:42

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-15'	1601569-072A	Soil	01/14/2016 11:15	GC11B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 01:46
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 01:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	109	70-130		01/20/2016 01:46

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20'	1601569-073A	Soil	01/14/2016 11:25	GC9a	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	410	1.0	1	01/20/2016 09:39
TPH-Motor Oil (C18-C36)	210	5.0	1	01/20/2016 09:39
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 09:39

Analyst(s): TK Analytical Comments: e4,e8,e2,e7

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-5'	1601569-074A	Soil	01/14/2016 12:50	GC9b	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 01:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 01:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/21/2016 01:00

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-10'	1601569-075A	Soil	01/14/2016 12:55	GC9a	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 13:17
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 13:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	77	70-130		01/21/2016 13:17

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-15'	1601569-076A	Soil	01/14/2016 13:00	GC9a	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 12:39
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 12:39
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	77	70-130		01/21/2016 12:39

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-20'	1601569-077A	Soil	01/14/2016 13:10	GC39B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	21	1.0	1	01/20/2016 14:48
TPH-Motor Oil (C18-C36)	39	5.0	1	01/20/2016 14:48
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 14:48
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-15'	1601569-081A	Soil	01/11/2016 09:25	GC9b	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 04:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 04:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 04:25
<u>Analyst(s):</u> TK				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	GC39A	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	910	1.0	1	01/20/2016 13:30
TPH-Motor Oil (C18-C36)	54	5.0	1	01/20/2016 13:30
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	107	70-130		01/20/2016 13:30
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e8,e11		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-5'	1601569-083A	Soil	01/11/2016 08:10	GC11B	115514
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/20/2016 06:20
TPH-Motor Oil (C18-C36)	7.7		5.0	1	01/20/2016 06:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	109		70-130		01/20/2016 06:20
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-10'	1601569-084A	Soil	01/11/2016 08:20	GC9a	115514
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/21/2016 11:21
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/21/2016 11:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	77		70-130		01/21/2016 11:21
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-15'	1601569-085A	Soil	01/11/2016 08:30	GC9b	115514
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	01/20/2016 03:47
TPH-Motor Oil (C18-C36)	ND		5.0	1	01/20/2016 03:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	94		70-130		01/20/2016 03:47
<u>Analyst(s):</u> TK					

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65D-20'	1601569-086A	Soil	01/11/2016 08:40	GC39B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:09
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:09
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 14:09

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-5'	1601569-091A	Soil	01/13/2016 09:45	GC39B	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 13:30
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 13:30
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	104	70-130		01/20/2016 13:30

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-11'	1601569-092A	Soil	01/13/2016 09:50	GC39A	115514

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.2	1.0	1	01/20/2016 04:17
TPH-Motor Oil (C18-C36)	7.7	5.0	1	01/20/2016 04:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	102	70-130		01/20/2016 04:17

Analyst(s): TK Analytical Comments: e7,e2

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-15'	1601569-093A	Soil	01/13/2016 10:00	GC11A	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	36	5.0	5	01/21/2016 12:32
TPH-Motor Oil (C18-C36)	110	25	5	01/21/2016 12:32

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	01/21/2016 12:32

Analyst(s): TK

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70C-20'	1601569-094A	Soil	01/13/2016 10:10	GC9a	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 03:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 03:08

Surrogates	REC (%)	Limits	Date Analyzed
C9	79	70-130	01/20/2016 03:08

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-5'	1601569-095A	Soil	01/13/2016 12:05	GC39B	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.1	1.0	1	01/20/2016 12:05
TPH-Motor Oil (C18-C36)	5.7	5.0	1	01/20/2016 12:05

Surrogates	REC (%)	Limits	Date Analyzed
C9	105	70-130	01/20/2016 12:05

Analyst(s): TK

Analytical Comments: e7,e2

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-10'	1601569-096A	Soil	01/13/2016 12:10	GC39A	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 06:53
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 06:53

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	102	70-130	01/20/2016 06:53

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-15'	1601569-097A	Soil	01/13/2016 12:20	GC11B	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/19/2016 23:29
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/19/2016 23:29

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	107	70-130	01/19/2016 23:29

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-70D-20'	1601569-098A	Soil	01/13/2016 12:30	GC9a	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 03:47
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 03:47

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	78	70-130	01/20/2016 03:47

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-10'	1601569-100A	Soil	01/12/2016 15:05	GC9b	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	14	2.0	2	01/21/2016 13:17
TPH-Motor Oil (C18-C36)	17	10	2	01/21/2016 13:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/21/2016 13:17

Analyst(s): TK Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-5'	1601569-102A	Soil	01/15/2016 07:45	GC9b	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 21:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 21:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 21:08

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-10'	1601569-103A	Soil	01/15/2016 07:50	GC39A	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 11:11
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 11:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	103	70-130		01/21/2016 11:11

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-15'	1601569-104A	Soil	01/15/2016 08:00	GC39A	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 00:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 00:32
Surrogates	REC (%)	Limits		
C9	102	70-130		01/21/2016 00:32

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-20'	1601569-105A	Soil	01/15/2016 08:10	GC39A	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:48
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:48
Surrogates	REC (%)	Limits		
C9	101	70-130		01/20/2016 14:48

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65H-10'	1601569-107A	Soil	01/15/2016 09:05	GC39A	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 19:21
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 19:21
Surrogates	REC (%)	Limits		
C9	103	70-130		01/20/2016 19:21

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65H-15'	1601569-108A	Soil	01/15/2016 09:10	GC9b	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 00:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 00:22
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/21/2016 00:22

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65I-15'	1601569-112A	Soil	01/15/2016 10:20	GC9b	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 22:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 22:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	94	70-130		01/20/2016 22:25

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65I-20'	1601569-113A	Soil	01/15/2016 10:30	GC6A	115516

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	130	5.0	5	01/21/2016 10:41
TPH-Motor Oil (C18-C36)	80	25	5	01/21/2016 10:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	97	70-130		01/21/2016 10:41

Analyst(s): TK Analytical Comments: e11,e2,e7

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-5'	1601569-114A	Soil	01/15/2016 13:45	GC9a	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 21:47
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 21:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	83	70-130		01/20/2016 21:47

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-10'	1601569-115A	Soil	01/15/2016 13:50	GC9a	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 12:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 12:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	80	70-130		01/21/2016 12:00

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-15'	1601569-116A	Soil	01/15/2016 13:55	GC39A	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 10:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 10:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
C9	102	70-130		01/21/2016 10:32

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65J-20'	1601569-117A	Soil	01/15/2016 14:00	GC39A	115516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 10:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 10:08

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	101	70-130	01/20/2016 10:08

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-5'	1601569-118A	Soil	01/15/2016 11:55	GC9a	115517

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 22:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 22:25

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	82	70-130	01/20/2016 22:25

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-10'	1601569-119A	Soil	01/15/2016 12:00	GC39B	115517

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 20:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 20:00

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	104	70-130	01/20/2016 20:00

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-15'	1601569-120A	Soil	01/15/2016 12:20	GC39A	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 14:09
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 14:09
Surrogates	REC (%)	Limits		
C9	102	70-130		01/20/2016 14:09

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65K-20'	1601569-121A	Soil	01/15/2016 12:40	GC9b	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 21:47
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 21:47
Surrogates	REC (%)	Limits		
C9	94	70-130		01/20/2016 21:47

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-5'	1601569-122A	Soil	01/15/2016 13:10	GC39A	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 20:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 20:00
Surrogates	REC (%)	Limits		
C9	102	70-130		01/20/2016 20:00

Analyst(s): TK

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-10'	1601569-123A	Soil	01/15/2016 13:15	GC9a	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/21/2016 06:49
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/21/2016 06:49
Surrogates	REC (%)	Limits		
C9	81	70-130		01/21/2016 06:49

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-15'	1601569-124A	Soil	01/15/2016 13:20	GC39A	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 20:39
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 20:39
Surrogates	REC (%)	Limits		
C9	101	70-130		01/20/2016 20:39

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65L-20'	1601569-125A	Soil	01/15/2016 13:30	GC39B	115517

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	01/20/2016 09:29
TPH-Motor Oil (C18-C36)	ND	5.0	1	01/20/2016 09:29
Surrogates	REC (%)	Limits		
C9	102	70-130		01/20/2016 09:29

Analyst(s): TK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-GW	1601569-005A	Water	01/11/2016 15:30	GC6B	115502
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	460,000	H	100,000	2,000	01/21/2016 08:16
TPH-Motor Oil (C18-C36)	950,000	H	500,000	2,000	01/21/2016 08:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
C9	194	SH	70-130		01/21/2016 08:16
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e8,b6,c2,b1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-GW	1601569-018A	Water	01/12/2016 12:00	GC39B	115502
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	260		50	1	01/20/2016 16:45
TPH-Motor Oil (C18-C36)	ND		250	1	01/20/2016 16:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		01/20/2016 16:45
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,e7,b1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62F-GW	1601569-078A	Water	01/14/2016 13:20	GC9a	115502
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	56,000		1000	20	01/20/2016 04:25
TPH-Motor Oil (C18-C36)	75,000		5000	20	01/20/2016 04:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	79		70-130		01/20/2016 04:25
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,e8,b1		

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 1/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65F-GW	1601569-106A	Water	01/15/2016 08:25	GC39B	115502

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	91	50	1	01/20/2016 20:39
TPH-Motor Oil (C18-C36)	550	250	1	01/20/2016 20:39

Surrogates	REC (%)	Limits	Date Analyzed
C9	103	70-130	01/20/2016 20:39

Analyst(s): TK

Analytical Comments: e7,e2,b1



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/20/16
Instrument: GC7
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115518
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115518
 1601569-037AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.536	0.40	0.60	-	89	70-130
MTBE	ND	0.0915	0.050	0.10	-	92	70-130
Benzene	ND	0.100	0.0050	0.10	-	100	70-130
Toluene	ND	0.101	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.104	0.0050	0.10	-	104	70-130
Xylenes	ND	0.327	0.015	0.30	-	109	70-130

Surrogate Recovery

2-Fluorotoluene	0.112	0.121		0.10	112	121	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		71	NR	NR	-	NR	
MTBE	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.1	NR	NR	-	NR	
Xylenes	NR	NR		1.8	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/21/16
Instrument: GC19
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115519
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115519
 1601569-048AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.581	0.40	0.60	-	97	70-130
MTBE	ND	0.0964	0.050	0.10	-	96	70-130
Benzene	ND	0.103	0.0050	0.10	-	103	70-130
Toluene	ND	0.106	0.0050	0.10	-	106	70-130
Ethylbenzene	ND	0.110	0.0050	0.10	-	110	70-130
Xylenes	ND	0.349	0.015	0.30	-	116	70-130

Surrogate Recovery

2-Fluorotoluene	0.108	0.103		0.10	108	103	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		130	NR	NR	-	NR	
MTBE	NR	NR		ND<5	NR	NR	-	NR	
Benzene	NR	NR		ND<0.5	NR	NR	-	NR	
Toluene	NR	NR		ND<0.5	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.5	NR	NR	-	NR	
Xylenes	NR	NR		3.2	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/21/16
Instrument: GC3
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115522
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115522
 1601569-069AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.606	0.40	0.60	-	101	70-130
MTBE	ND	0.0932	0.050	0.10	-	93	70-130
Benzene	ND	0.0957	0.0050	0.10	-	96	70-130
Toluene	ND	0.101	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.102	0.0050	0.10	-	102	70-130
Xylenes	ND	0.310	0.015	0.30	-	103	70-130

Surrogate Recovery

2-Fluorotoluene	0.108	0.105		0.10	108	105	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		320	NR	NR	-	NR	
MTBE	NR	NR		ND<10	NR	NR	-	NR	
Benzene	NR	NR		ND<1	NR	NR	-	NR	
Toluene	NR	NR		ND<1	NR	NR	-	NR	
Ethylbenzene	NR	NR		3.5	NR	NR	-	NR	
Xylenes	NR	NR		9.8	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/21/16
Instrument: GC19
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115523
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115523
 1601569-116AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.577	0.40	0.60	-	96	70-130
MTBE	ND	0.0900	0.050	0.10	-	90	70-130
Benzene	ND	0.101	0.0050	0.10	-	101	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.110	0.0050	0.10	-	110	70-130
Xylenes	ND	0.346	0.015	0.30	-	115	70-130

Surrogate Recovery

2-Fluorotoluene	0.123	0.123		0.10	123	123	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.516	0.538	0.60	ND	86	90	70-130	4.08	20
MTBE	0.0731	0.0720	0.10	ND	73	72	70-130	1.53	20
Benzene	0.0882	0.0873	0.10	ND	88	87	70-130	1.02	20
Toluene	0.0934	0.0923	0.10	ND	93	92	70-130	1.18	20
Ethylbenzene	0.0949	0.0953	0.10	ND	95	95	70-130	0	20
Xylenes	0.286	0.285	0.30	ND	95	95	70-130	0	20

Surrogate Recovery

2-Fluorotoluene	0.0954	0.0944	0.10		95	94	70-130	1.09	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/19/16
Instrument: GC7
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115525
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115525
 1601569-124AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.551	0.40	0.60	-	92	70-130
MTBE	ND	0.0851	0.050	0.10	-	85	70-130
Benzene	ND	0.0953	0.0050	0.10	-	95	70-130
Toluene	ND	0.0977	0.0050	0.10	-	98	70-130
Ethylbenzene	ND	0.102	0.0050	0.10	-	102	70-130
Xylenes	ND	0.319	0.015	0.30	-	106	70-130

Surrogate Recovery

2-Fluorotoluene	0.128	0.117		0.10	128	117	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.511	0.507	0.60	ND	85	84	70-130	0.810	20
MTBE	0.0838	0.0904	0.10	ND	84	90	70-130	7.59	20
Benzene	0.0887	0.0926	0.10	ND	87	91	70-130	4.30	20
Toluene	0.0892	0.0934	0.10	ND	89	93	70-130	4.63	20
Ethylbenzene	0.0934	0.0976	0.10	ND	93	98	70-130	4.40	20
Xylenes	0.298	0.305	0.30	ND	99	102	70-130	2.50	20

Surrogate Recovery

2-Fluorotoluene	0.108	0.114	0.10		108	113	70-130	4.55	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/20/16
Date Analyzed: 1/21/16
Instrument: GC3
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115596
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115596
 1601709-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.603	0.40	0.60	-	101	70-130
MTBE	ND	0.0879	0.050	0.10	-	88	70-130
Benzene	ND	0.100	0.0050	0.10	-	100	70-130
Toluene	ND	0.104	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.105	0.0050	0.10	-	105	70-130
Xylenes	ND	0.319	0.015	0.30	-	106	70-130

Surrogate Recovery

2-Fluorotoluene	0.110	0.106		0.10	110	106	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.542	0.533	0.60	ND	90	89	70-130	1.69	20
MTBE	0.0822	0.0792	0.10	ND	82	79	70-130	3.77	20
Benzene	0.0858	0.0784	0.10	ND	86	78	70-130	9.01	20
Toluene	0.0914	0.0844	0.10	ND	89	82	70-130	7.98	20
Ethylbenzene	0.0933	0.0833	0.10	ND	93	83	70-130	11.4	20
Xylenes	0.285	0.257	0.30	ND	93	84	70-130	10.4	20

Surrogate Recovery

2-Fluorotoluene	0.0949	0.0857	0.10		95	86	70-130	10.2	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/22/16
Date Analyzed: 1/23/16
Instrument: GC7
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115713
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-115713
 1601837-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.521	0.40	0.60	-	87	70-130
MTBE	ND	0.0776	0.050	0.10	-	78	70-130
Benzene	ND	0.0923	0.0050	0.10	-	92	70-130
Toluene	ND	0.0943	0.0050	0.10	-	94	70-130
Ethylbenzene	ND	0.0988	0.0050	0.10	-	99	70-130
Xylenes	ND	0.308	0.015	0.30	-	103	70-130

Surrogate Recovery

2-Fluorotoluene	0.109	0.113		0.10	109	113	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.496	0.502	0.60	ND	83	84	70-130	1.17	20
MTBE	0.0756	0.0724	0.10	ND	72	69,F1	70-130	4.35	20
Benzene	0.0854	0.0838	0.10	ND	85	84	70-130	1.93	20
Toluene	0.0865	0.0870	0.10	ND	87	87	70-130	0	20
Ethylbenzene	0.0899	0.0899	0.10	ND	90	90	70-130	0	20
Xylenes	0.288	0.281	0.30	ND	96	94	70-130	2.41	20

Surrogate Recovery

2-Fluorotoluene	0.105	0.105	0.10		105	105	70-130	0	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/21/16
Date Analyzed: 1/20/16
Instrument: GC3
Matrix: Water
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115628
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-115628
 1601468-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND<400	57.9	400	60	-	97	70-130
MTBE	ND<50	10.1	50	10	-	101	70-130
Benzene	ND<5.0	10.5	5.0	10	-	105	70-130
Toluene	ND<5.0	10.7	5.0	10	-	107	70-130
Ethylbenzene	ND<5.0	10.9	5.0	10	-	109	70-130
Xylenes	ND<15	33.2	15	30	-	110	70-130

Surrogate Recovery

aaa-TFT	99.0	9.56		10	99	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	56.5	58.3	60	ND	94	97	70-130	3.02	20
MTBE	9.59	10.1	10	ND	96	101	70-130	4.99	20
Benzene	10.1	9.98	10	ND	101	100	70-130	1.21	20
Toluene	10.3	10.2	10	ND	103	102	70-130	0.722	20
Ethylbenzene	10.4	10.3	10	ND	104	103	70-130	1.07	20
Xylenes	31.4	31.2	30	ND	105	104	70-130	0.614	20

Surrogate Recovery

aaa-TFT	9.58	9.42	10		96	94	70-130	1.65	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/22/16
Date Analyzed: 1/21/16 - 1/22/16
Instrument: GC3
Matrix: Water
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115712
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-115712
 1601693-041AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	55.4	40	60	-	92	70-130
MTBE	ND	9.12	5.0	10	-	91	70-130
Benzene	ND	9.65	0.50	10	-	97	70-130
Toluene	ND	9.94	0.50	10	-	99	70-130
Ethylbenzene	ND	10.2	0.50	10	-	102	70-130
Xylenes	ND	31.2	1.5	30	-	104	70-130

Surrogate Recovery

aaa-TFT	10.1	9.56		10	101	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	55.0	57.2	60	ND	92	95	70-130	4.07	20
MTBE	9.98	10.0	10	ND	100	100	70-130	0	20
Benzene	9.88	10.2	10	ND	99	102	70-130	3.46	20
Toluene	10.2	10.5	10	ND	102	105	70-130	3.09	20
Ethylbenzene	10.4	10.8	10	ND	104	108	70-130	4.11	20
Xylenes	31.6	32.7	30	ND	105	109	70-130	3.55	20

Surrogate Recovery

aaa-TFT	9.56	9.63	10		96	96	70-130	0	20
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Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/19/16
Instrument: GC9a
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115510
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-115510
 1601569-038AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.2	1.0	40	-	108	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	19.9	20.0		25	80	80	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	42.4	44.6	40	ND	106	112	70-130	5.19	30
Surrogate Recovery									
C9	19.4	20.2	25		78	81	70-130	3.54	30

(Cont.)



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/19/16
Instrument: GC9b
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115513
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-115513
 1601569-065AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.9	1.0	40	-	117	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.5	23.1		25	94	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	47.3	47.3	40	ND	118	118	70-130	0	30
Surrogate Recovery									
C9	23.1	23.2	25		93	93	70-130	0	30



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/20/16
Instrument: GC39A
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115514
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-115514
 1601569-092AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.6	1.0	40	-	94	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.4	25.0		25	102	100	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	40.2	41.3	40	1.248	97	100	70-130	2.77	30
Surrogate Recovery									
C9	25.0	25.1	25		100	100	70-130	0	30



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/20/16
Instrument: GC39A
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115516
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-115516
 1601569-117AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.1	1.0	40	-	100	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.9	24.8		25	100	99	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	39.7	34.3	40	ND	99	86	70-130	14.5	30
Surrogate Recovery									
C9	25.1	24.8	25		100	99	70-130	1.08	30

(Cont.)



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/20/16
Instrument: GC39B
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115517
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-115517
 1601569-125AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.1	1.0	40	-	103	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.6	25.6		25	102	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	42.1	42.1	40	ND	105	105	70-130	0	30
Surrogate Recovery									
C9	25.7	25.8	25		103	103	70-130	0	30



Quality Control Report

Client: CKG Environmental
Date Prepared: 1/19/16
Date Analyzed: 1/19/16
Instrument: GC11B, GC39B
Matrix: Water
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 115502
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-115502

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1160	50	1000	-	116	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	641	678		625	103	109	65-122

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601569

ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owen's Brockway

Bill to:

Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601569-001	B-51-5'	Soil	1/11/2016 14:50	<input type="checkbox"/>	A		A									
1601569-003	B-51-15'	Soil	1/11/2016 15:05	<input type="checkbox"/>	A		A									
1601569-005	B-51-GW	Water	1/11/2016 15:30	<input type="checkbox"/>		A		A								
1601569-006	B-56A-5'	Soil	1/12/2016 8:25	<input type="checkbox"/>	A		A									
1601569-007	B-56A-10'	Soil	1/12/2016 8:30	<input type="checkbox"/>	A		A									
1601569-013	B-56B-20'	Soil	1/12/2016 7:50	<input type="checkbox"/>	A		A									
1601569-014	B-57A-3'	Soil	1/12/2016 11:10	<input type="checkbox"/>	A		A									
1601569-018	B-57A-GW	Water	1/12/2016 12:00	<input type="checkbox"/>		A		A								
1601569-019	B-57B-5'	Soil	1/12/2016 9:00	<input type="checkbox"/>	A		A									
1601569-023	B-58A-3'	Soil	1/14/2016 15:25	<input type="checkbox"/>	A		A									
1601569-024	B-58A-10'	Soil	1/14/2016 15:30	<input type="checkbox"/>	A		A									
1601569-025	B-58A-15'	Soil	1/14/2016 15:35	<input type="checkbox"/>	A		A									
1601569-026	B-58A-20'	Soil	1/14/2016 15:40	<input type="checkbox"/>	A		A									
1601569-027	B-59-5'	Soil	1/11/2016 13:40	<input type="checkbox"/>	A		A									
1601569-028	B-59-10'	Soil	1/11/2016 13:45	<input type="checkbox"/>	A		A									

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

Prepared by: Maria Venegas

Comments:

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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601569

ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owen's Brockway

Bill to:

Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601569-030	B-59-20'	Soil	1/11/2016 14:05	<input type="checkbox"/>	A		A									
1601569-031	B-60-5'	Soil	1/11/2016 14:20	<input type="checkbox"/>	A		A									
1601569-032	B-60-10'	Soil	1/11/2016 14:25	<input type="checkbox"/>	A		A									
1601569-033	B-60-15'	Soil	1/11/2016 14:30	<input type="checkbox"/>	A		A									
1601569-036	B-60B-15'	Soil	1/12/2016 10:30	<input type="checkbox"/>	A		A									
1601569-037	B-60B-19'	Soil	1/12/2016 10:40	<input type="checkbox"/>	A		A									
1601569-038	B-60C-5'	Soil	1/14/2016 8:15	<input type="checkbox"/>	A		A									
1601569-039	B-60C-10'	Soil	1/14/2016 8:20	<input type="checkbox"/>	A		A									
1601569-040	B-60C-15'	Soil	1/14/2016 8:30	<input type="checkbox"/>	A		A									
1601569-042	B-61B-5'	Soil	1/11/2016 12:35	<input type="checkbox"/>	A		A									
1601569-044	B-61B-15'	Soil	1/11/2016 12:55	<input type="checkbox"/>	A		A									
1601569-046	B-61C-4'	Soil	1/13/2016 14:10	<input type="checkbox"/>	A		A									
1601569-047	B-61C-10'	Soil	1/13/2016 14:15	<input type="checkbox"/>	A		A									
1601569-048	B-61C-15'	Soil	1/13/2016 14:20	<input type="checkbox"/>	A		A									
1601569-051	B-61D-10'	Soil	1/13/2016 15:15	<input type="checkbox"/>	A		A									

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

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Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601569-052	B-61D-15'	Soil	1/13/2016 15:20	<input type="checkbox"/>	A		A									
1601569-053	B-61D-20'	Soil	1/13/2016 15:25	<input type="checkbox"/>	A		A									
1601569-054	B-61E-5'	Soil	1/14/2016 9:25	<input type="checkbox"/>	A		A									
1601569-055	B-61E-10'	Soil	1/14/2016 9:30	<input type="checkbox"/>	A		A									
1601569-056	B-61E-15'	Soil	1/14/2016 9:40	<input type="checkbox"/>	A		A									
1601569-057	B-61E-20'	Soil	1/14/2016 9:50	<input type="checkbox"/>	A		A									
1601569-059	B-62B-10'	Soil	1/11/2016 10:10	<input type="checkbox"/>	A		A									
1601569-061	B-62B-20'	Soil	1/11/2016 10:30	<input type="checkbox"/>	A		A									
1601569-062	B-62C-5'	Soil	1/11/2016 10:50	<input type="checkbox"/>	A		A									
1601569-063	B-62C-10'	Soil	1/11/2016 11:00	<input type="checkbox"/>	A		A									
1601569-064	B-62C-15'	Soil	1/11/2016 11:10	<input type="checkbox"/>	A		A									
1601569-065	B-62C-20'	Soil	1/11/2016 11:20	<input type="checkbox"/>	A		A									
1601569-066	B-62D-5'	Soil	1/14/2016 10:25	<input type="checkbox"/>	A		A									
1601569-067	B-62D-10'	Soil	1/14/2016 10:30	<input type="checkbox"/>	A		A									
1601569-068	B-62D-15'	Soil	1/14/2016 10:35	<input type="checkbox"/>	A		A									

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

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Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601569-069	B-62D-20'	Soil	1/14/2016 10:45	<input type="checkbox"/>	A		A										
1601569-070	B-62E-5'	Soil	1/14/2016 11:00	<input type="checkbox"/>	A		A										
1601569-071	B-62E-10'	Soil	1/14/2016 11:05	<input type="checkbox"/>	A		A										
1601569-072	B-62E-15'	Soil	1/14/2016 11:15	<input type="checkbox"/>	A		A										
1601569-073	B-62E-20'	Soil	1/14/2016 11:25	<input type="checkbox"/>	A		A										
1601569-074	B-62F-5'	Soil	1/14/2016 12:50	<input type="checkbox"/>	A		A										
1601569-075	B-62F-10'	Soil	1/14/2016 12:55	<input type="checkbox"/>	A		A										
1601569-076	B-62F-15'	Soil	1/14/2016 13:00	<input type="checkbox"/>	A		A										
1601569-077	B-62F-20'	Soil	1/14/2016 13:10	<input type="checkbox"/>	A		A										
1601569-078	B-62F-GW	Water	1/14/2016 13:20	<input type="checkbox"/>		A		A									
1601569-081	B-65C-15'	Soil	1/11/2016 9:25	<input type="checkbox"/>	A		A										
1601569-082	B-65C-20'	Soil	1/11/2016 9:35	<input type="checkbox"/>	A		A										
1601569-083	B-65D-5'	Soil	1/11/2016 8:10	<input type="checkbox"/>	A		A										
1601569-084	B-65D-10'	Soil	1/11/2016 8:20	<input type="checkbox"/>	A		A										
1601569-085	B-65D-15'	Soil	1/11/2016 8:30	<input type="checkbox"/>	A		A										

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

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Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601569-086	B-65D-20'	Soil	1/11/2016 8:40	<input type="checkbox"/>	A		A										
1601569-091	B-70C-5'	Soil	1/13/2016 9:45	<input type="checkbox"/>	A		A										
1601569-092	B-70C-11'	Soil	1/13/2016 9:50	<input type="checkbox"/>	A		A										
1601569-093	B-70C-15'	Soil	1/13/2016 10:00	<input type="checkbox"/>	A		A										
1601569-094	B-70C-20'	Soil	1/13/2016 10:10	<input type="checkbox"/>	A		A										
1601569-095	B-70D-5'	Soil	1/13/2016 12:05	<input type="checkbox"/>	A		A										
1601569-096	B-70D-10'	Soil	1/13/2016 12:10	<input type="checkbox"/>	A		A										
1601569-097	B-70D-15'	Soil	1/13/2016 12:20	<input type="checkbox"/>	A		A										
1601569-098	B-70D-20'	Soil	1/13/2016 12:30	<input type="checkbox"/>	A		A										
1601569-100	B-72A-10'	Soil	1/12/2016 15:05	<input type="checkbox"/>	A		A										
1601569-102	B-65F-5'	Soil	1/15/2016 7:45	<input type="checkbox"/>	A		A										
1601569-103	B-65F-10'	Soil	1/15/2016 7:50	<input type="checkbox"/>	A		A										
1601569-104	B-65F-15'	Soil	1/15/2016 8:00	<input type="checkbox"/>	A		A										
1601569-105	B-65F-20'	Soil	1/15/2016 8:10	<input type="checkbox"/>	A		A										
1601569-106	B-65F-GW	Water	1/15/2016 8:25	<input type="checkbox"/>		A		A									

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601569

ClientCode: CKGS

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Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601569-107	B-65H-10'	Soil	1/15/2016 9:05	<input type="checkbox"/>	A		A									
1601569-108	B-65H-15'	Soil	1/15/2016 9:10	<input type="checkbox"/>	A		A									
1601569-112	B-65I-15'	Soil	1/15/2016 10:20	<input type="checkbox"/>	A		A									
1601569-113	B-65I-20'	Soil	1/15/2016 10:30	<input type="checkbox"/>	A		A									
1601569-114	B-65J-5'	Soil	1/15/2016 13:45	<input type="checkbox"/>	A		A									
1601569-115	B-65J-10'	Soil	1/15/2016 13:50	<input type="checkbox"/>	A		A									
1601569-116	B-65J-15'	Soil	1/15/2016 13:55	<input type="checkbox"/>	A		A									
1601569-117	B-65J-20'	Soil	1/15/2016 14:00	<input type="checkbox"/>	A		A									
1601569-118	B-65K-5'	Soil	1/15/2016 11:55	<input type="checkbox"/>	A		A									
1601569-119	B-65K-10'	Soil	1/15/2016 12:00	<input type="checkbox"/>	A		A									
1601569-120	B-65K-15'	Soil	1/15/2016 12:20	<input type="checkbox"/>	A		A									
1601569-121	B-65K-20'	Soil	1/15/2016 12:40	<input type="checkbox"/>	A		A									
1601569-122	B-65L-5'	Soil	1/15/2016 13:10	<input type="checkbox"/>	A		A									
1601569-123	B-65L-10'	Soil	1/15/2016 13:15	<input type="checkbox"/>	A		A									
1601569-124	B-65L-15'	Soil	1/15/2016 13:20	<input type="checkbox"/>	A		A									

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

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Requested TAT: 5 days;

Date Received: 01/15/2016

Date Logged: 01/19/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601569-125	B-65L-20'	Soil	1/15/2016 13:30	<input type="checkbox"/>	A		A										

Test Legend:

1	G-MBTEx_S	2	G-MBTEx_W	3	TPH(DMO)_S	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

The following SamplIDs: 001A, 003A, 005A, 006A, 007A, 013A, 014A, 018A, 019A, 023A, 024A, 025A, 026A, 027A, 028A, 030A, 031A, 032A, 033A, 036A, 037A, 038A, 039A, 040A, 042A, 044A, 046A, 047A, 048A, 051A, 052A, 053A, 054A, 055A, 056A, 057A, 059A, 061A,

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Comments:

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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments:

Contact's Email: ckennedy@geologist.com

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-001A	B-51-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:50	5 days		<input type="checkbox"/>	
1601569-002A	B-51-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:55			<input checked="" type="checkbox"/>	
1601569-003A	B-51-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 15:05	5 days		<input type="checkbox"/>	
1601569-004A	B-51-19'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 15:15			<input checked="" type="checkbox"/>	
1601569-005A	B-51-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/11/2016 15:30	5 days	10%+	<input type="checkbox"/>	
1601569-006A	B-56A-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 8:25	5 days		<input type="checkbox"/>	
1601569-007A	B-56A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 8:30	5 days		<input type="checkbox"/>	
1601569-008A	B-56A-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 8:40			<input checked="" type="checkbox"/>	
1601569-009A	B-56A-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 8:50			<input checked="" type="checkbox"/>	
1601569-010A	B-56B-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 7:20			<input checked="" type="checkbox"/>	
1601569-011A	B-56B-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 7:30			<input checked="" type="checkbox"/>	
1601569-012A	B-56B-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 7:40			<input checked="" type="checkbox"/>	
1601569-013A	B-56B-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 7:50	5 days		<input type="checkbox"/>	
1601569-014A	B-57A-3'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 11:10	5 days		<input type="checkbox"/>	
1601569-015A	B-57A-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 11:20			<input checked="" type="checkbox"/>	
1601569-016A	B-57A-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 11:25			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments:

Contact's Email: ckennedy@geologist.com

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-017A	B-57A-19'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 11:35			<input checked="" type="checkbox"/>	
1601569-018A	B-57A-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/12/2016 12:00	5 days	10%+	<input type="checkbox"/>	
1601569-019A	B-57B-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 9:00	5 days		<input type="checkbox"/>	
1601569-020A	B-57B-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 9:05			<input checked="" type="checkbox"/>	
1601569-021A	B-57B-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 9:10			<input type="checkbox"/>	
1601569-022A	B-57B-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 9:20			<input type="checkbox"/>	
1601569-023A	B-58A-3'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 15:25	5 days		<input type="checkbox"/>	
1601569-024A	B-58A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 15:30	5 days		<input type="checkbox"/>	
1601569-025A	B-58A-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 15:35	5 days		<input type="checkbox"/>	
1601569-026A	B-58A-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 15:40	5 days		<input type="checkbox"/>	
1601569-027A	B-59-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 13:40	5 days		<input type="checkbox"/>	
1601569-028A	B-59-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 13:45	5 days		<input type="checkbox"/>	
1601569-029A	B-59-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 13:55			<input checked="" type="checkbox"/>	
1601569-030A	B-59-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:05	5 days		<input type="checkbox"/>	
1601569-031A	B-60-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:20	5 days		<input type="checkbox"/>	
1601569-032A	B-60-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:25	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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Client Name: CKG ENVIRONMENTAL

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Work Order: 1601569

Project: Owen's Brockway

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-033A	B-60-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 14:30	5 days		<input type="checkbox"/>	
1601569-034A	B-60B-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 10:15			<input checked="" type="checkbox"/>	
1601569-035A	B-60B-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 10:20			<input checked="" type="checkbox"/>	
1601569-036A	B-60B-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 10:30	5 days		<input type="checkbox"/>	
1601569-037A	B-60B-19'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 10:40	5 days		<input type="checkbox"/>	
1601569-038A	B-60C-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 8:15	5 days		<input type="checkbox"/>	
1601569-039A	B-60C-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 8:20	5 days		<input type="checkbox"/>	
1601569-040A	B-60C-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 8:30	5 days		<input type="checkbox"/>	
1601569-041A	B-60C-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/14/2016 8:40			<input checked="" type="checkbox"/>	
1601569-042A	B-61B-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 12:35	5 days		<input type="checkbox"/>	
1601569-043A	B-61B-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 12:45			<input checked="" type="checkbox"/>	
1601569-044A	B-61B-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 12:55	5 days		<input type="checkbox"/>	
1601569-045A	B-61B-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 13:05			<input checked="" type="checkbox"/>	
1601569-046A	B-61C-4'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 14:10	5 days		<input type="checkbox"/>	
1601569-047A	B-61C-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 14:15	5 days		<input type="checkbox"/>	
1601569-048A	B-61C-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 14:20	5 days		<input type="checkbox"/>	

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-049A	B-61C-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/13/2016 14:30			<input checked="" type="checkbox"/>	
1601569-050A	B-61D-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/13/2016 15:10			<input checked="" type="checkbox"/>	
1601569-051A	B-61D-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 15:15	5 days		<input type="checkbox"/>	
1601569-052A	B-61D-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 15:20	5 days		<input type="checkbox"/>	
1601569-053A	B-61D-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 15:25	5 days		<input type="checkbox"/>	
1601569-054A	B-61E-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 9:25	5 days		<input type="checkbox"/>	
1601569-055A	B-61E-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 9:30	5 days		<input type="checkbox"/>	
1601569-056A	B-61E-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 9:40	5 days		<input type="checkbox"/>	
1601569-057A	B-61E-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 9:50	5 days		<input type="checkbox"/>	
1601569-058A	B-62B-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 10:00			<input checked="" type="checkbox"/>	
1601569-059A	B-62B-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 10:10	5 days		<input type="checkbox"/>	
1601569-060A	B-62B-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 10:20			<input checked="" type="checkbox"/>	
1601569-061A	B-62B-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 10:30	5 days		<input type="checkbox"/>	
1601569-062A	B-62C-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 10:50	5 days		<input type="checkbox"/>	
1601569-063A	B-62C-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 11:00	5 days		<input type="checkbox"/>	
1601569-064A	B-62C-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 11:10	5 days		<input type="checkbox"/>	

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Comments:

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-065A	B-62C-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 11:20	5 days		<input type="checkbox"/>	
1601569-066A	B-62D-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 10:25	5 days		<input type="checkbox"/>	
1601569-067A	B-62D-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 10:30	5 days		<input type="checkbox"/>	
1601569-068A	B-62D-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 10:35	5 days		<input type="checkbox"/>	
1601569-069A	B-62D-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 10:45	5 days		<input type="checkbox"/>	
1601569-070A	B-62E-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 11:00	5 days		<input type="checkbox"/>	
1601569-071A	B-62E-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 11:05	5 days		<input type="checkbox"/>	
1601569-072A	B-62E-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 11:15	5 days		<input type="checkbox"/>	
1601569-073A	B-62E-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 11:25	5 days		<input type="checkbox"/>	
1601569-074A	B-62F-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 12:50	5 days		<input type="checkbox"/>	
1601569-075A	B-62F-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 12:55	5 days		<input type="checkbox"/>	
1601569-076A	B-62F-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:00	5 days		<input type="checkbox"/>	
1601569-077A	B-62F-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:10	5 days		<input type="checkbox"/>	
1601569-078A	B-62F-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/14/2016 13:20	5 days	10%+	<input type="checkbox"/>	
1601569-079A	B-65C-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 9:05			<input checked="" type="checkbox"/>	
1601569-080A	B-65C-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/11/2016 9:15			<input checked="" type="checkbox"/>	

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Work Order: 1601569

Project: Owen's Brockway

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Comments:

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-081A	B-65C-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 9:25	5 days		<input type="checkbox"/>	
1601569-082A	B-65C-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 9:35	5 days		<input type="checkbox"/>	
1601569-083A	B-65D-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 8:10	5 days		<input type="checkbox"/>	
1601569-084A	B-65D-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 8:20	5 days		<input type="checkbox"/>	
1601569-085A	B-65D-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 8:30	5 days		<input type="checkbox"/>	
1601569-086A	B-65D-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/11/2016 8:40	5 days		<input type="checkbox"/>	
1601569-087A	B-65G-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:35			<input checked="" type="checkbox"/>	
1601569-088A	B-65G-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:40			<input checked="" type="checkbox"/>	
1601569-089A	B-65G-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:45			<input checked="" type="checkbox"/>	
1601569-090A	B-65G-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/14/2016 13:50			<input checked="" type="checkbox"/>	
1601569-091A	B-70C-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 9:45	5 days		<input type="checkbox"/>	
1601569-092A	B-70C-11'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 9:50	5 days		<input type="checkbox"/>	
1601569-093A	B-70C-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 10:00	5 days		<input type="checkbox"/>	
1601569-094A	B-70C-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 10:10	5 days		<input type="checkbox"/>	
1601569-095A	B-70D-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 12:05	5 days		<input type="checkbox"/>	
1601569-096A	B-70D-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 12:10	5 days		<input type="checkbox"/>	

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1601569-097A	B-70D-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 12:20	5 days		<input type="checkbox"/>	
1601569-098A	B-70D-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/13/2016 12:30	5 days		<input type="checkbox"/>	
1601569-099A	B-72A-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 15:00			<input checked="" type="checkbox"/>	
1601569-100A	B-72A-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/12/2016 15:05	5 days		<input type="checkbox"/>	
1601569-101A	B-72A-15'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/12/2016 15:10			<input checked="" type="checkbox"/>	
1601569-102A	B-65F-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 7:45	5 days		<input type="checkbox"/>	
1601569-103A	B-65F-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 7:50	5 days		<input type="checkbox"/>	
1601569-104A	B-65F-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 8:00	5 days		<input type="checkbox"/>	
1601569-105A	B-65F-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 8:10	5 days		<input type="checkbox"/>	
1601569-106A	B-65F-GW	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	1/15/2016 8:25	5 days	25%+	<input type="checkbox"/>	
1601569-107A	B-65H-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 9:05	5 days		<input type="checkbox"/>	
1601569-108A	B-65H-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 9:10	5 days		<input type="checkbox"/>	
1601569-109A	B-65H-20'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/15/2016 9:20			<input checked="" type="checkbox"/>	
1601569-110A	B-65I-5'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/15/2016 10:10			<input checked="" type="checkbox"/>	
1601569-111A	B-65I-10'	Soil		1	4OZ GJ	<input type="checkbox"/>	1/15/2016 10:15			<input checked="" type="checkbox"/>	
1601569-112A	B-65I-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 10:20	5 days		<input type="checkbox"/>	

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1601569-113A	B-65I-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 10:30	5 days		<input type="checkbox"/>	
1601569-114A	B-65J-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:45	5 days		<input type="checkbox"/>	
1601569-115A	B-65J-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:50	5 days		<input type="checkbox"/>	
1601569-116A	B-65J-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:55	5 days		<input type="checkbox"/>	
1601569-117A	B-65J-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 14:00	5 days		<input type="checkbox"/>	
1601569-118A	B-65K-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 11:55	5 days		<input type="checkbox"/>	
1601569-119A	B-65K-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 12:00	5 days		<input type="checkbox"/>	
1601569-120A	B-65K-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 12:20	5 days		<input type="checkbox"/>	
1601569-121A	B-65K-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 12:40	5 days		<input type="checkbox"/>	
1601569-122A	B-65L-5'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:10	5 days		<input type="checkbox"/>	
1601569-123A	B-65L-10'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:15	5 days		<input type="checkbox"/>	
1601569-124A	B-65L-15'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:20	5 days		<input type="checkbox"/>	
1601569-125A	B-65L-20'	Soil	Multi-Range TPH(g,d,mo)	1	4OZ GJ	<input type="checkbox"/>	1/15/2016 13:30	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name:	CKG Environmental	Date and Time Received:	1/15/2016 17:50
Project Name:	Owen's Brockway	Date Logged:	1/19/2016
WorkOrder №:	1601569	Matrix:	<u>Soil/Water</u>
Carrier:	<u>Client Drop-In</u>	Received by:	Jena Alfaro
		Logged by:	Maria Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample/Temp Blank temperature		Temp: 7.6°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

* NOTE: If the "No" box is checked, see comments below.

Comments: Method SW8015B (Diesel & Motor Oil) was received passed its 7-day holding time for sample B-51-GW.



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601569 A

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owen's Brockway

Project Received: 01/19/2016

Analytical Report reviewed & approved for release on 02/24/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Analytical Qualifiers

H	samples were analyzed out of holding time
S	Surrogate spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a2	sample diluted due to cluttered chromatogram
a3	sample diluted due to high organic content.
a4	reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c2	surrogate recovery outside of the control limits due to matrix interference.
c7	Surrogate value diluted out of range
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.
F8	MS/MSD recovery and/or RPD was out of acceptance criteria; PDS validated the prep batch. If PDS recovery was out of acceptance criteria, DLT validated the prep batch.



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-72A-5'	1601569-099A	Soil	01/12/2016 15:00	GC36	117006			
Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	0.500	1				02/22/2016 18:27
1,2,3,7,8-PeCDD		ND	2.50	1				02/22/2016 18:27
1,2,3,4,7,8-HxCDD		ND	2.50	1				02/22/2016 18:27
1,2,3,6,7,8-HxCDD		ND	2.50	1				02/22/2016 18:27
1,2,3,7,8,9-HxCDD		ND	2.50	1				02/22/2016 18:27
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				02/22/2016 18:27
OCDD		ND	5.00	1				02/22/2016 18:27
2,3,7,8-TCDF		ND	0.500	1				02/22/2016 18:27
1,2,3,7,8-PeCDF		ND	2.50	1				02/22/2016 18:27
2,3,4,7,8-PeCDF		ND	2.50	1				02/22/2016 18:27
1,2,3,4,7,8-HxCDF		ND	2.50	1				02/22/2016 18:27
1,2,3,6,7,8-HxCDF		ND	2.50	1				02/22/2016 18:27
2,3,4,6,7,8-HxCDF		ND	2.50	1				02/22/2016 18:27
1,2,3,7,8,9-HxCDF		ND	2.50	1				02/22/2016 18:27
1,2,3,4,6,7,8-HpCDF		ND	2.50	1				02/22/2016 18:27
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				02/22/2016 18:27
OCDF		ND	5.00	1				02/22/2016 18:27
Total-Tetradoxins		ND	0.500	1				02/22/2016 18:27
Total-Heptadoxins		ND	2.50	1				02/22/2016 18:27
Total-Hexadoxins		ND	2.50	1				02/22/2016 18:27
Total-Pentadoxins		ND	2.50	1				02/22/2016 18:27
Total-Tetrafurans	1.92		0.500	1				02/22/2016 18:27
Total-Heptafurans		ND	2.50	1				02/22/2016 18:27
Total-Hexafurans		ND	2.50	1				02/22/2016 18:27
Total-Pentafurans		ND	2.50	1				02/22/2016 18:27

Total TEQ: 0

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	90	35-197	02/22/2016 18:27
Labeled Compound Recovery			
13C-2,3,7,8-TCDD	88	25-164	02/22/2016 18:27
13C-1,2,3,7,8-PeCDD	81	25-181	02/22/2016 18:27
13C-1,2,3,4,7,8-HxCDD	84	32-141	02/22/2016 18:27
13C-1,2,3,6,7,8-HxCDD	80	28-130	02/22/2016 18:27
13C-1,2,3,4,6,7,8-HpCDD	84	23-140	02/22/2016 18:27

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-5'	1601569-099A	Soil	01/12/2016 15:00	GC36	117006

Analytes	TEF Result		RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
	WHO '05							
13C-OCDD	79		17-157					02/22/2016 18:27
13C-2,3,7,8-TCDF	85		24-169					02/22/2016 18:27
13C-1,2,3,7,8-PeCDF	83		24-185					02/22/2016 18:27
13C-2,3,4,7,8-PeCDF	81		21-178					02/22/2016 18:27
13C-1,2,3,4,7,8-HxCDF	86		26-152					02/22/2016 18:27
13C-1,2,3,6,7,8-HxCDF	82		26-123					02/22/2016 18:27
13C-2,3,4,6,7,8-HxCDF	89		28-136					02/22/2016 18:27
13C-1,2,3,7,8,9-HxCDF	86		29-147					02/22/2016 18:27
13C-1,2,3,4,6,7,8-HpCDF	87		28-143					02/22/2016 18:27
13C-1,2,3,4,7,8,9-HpCDF	80		26-138					02/22/2016 18:27

Analyst(s): MG



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-72A-10'	1601569-100A	Soil	01/12/2016 15:05	GC36	117006			
Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	0.500	1				02/22/2016 19:22
1,2,3,7,8-PeCDD		ND	2.50	1				02/22/2016 19:22
1,2,3,4,7,8-HxCDD		ND	2.50	1				02/22/2016 19:22
1,2,3,6,7,8-HxCDD		ND	2.50	1				02/22/2016 19:22
1,2,3,7,8,9-HxCDD		ND	2.50	1				02/22/2016 19:22
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				02/22/2016 19:22
OCDD		ND	5.00	1				02/22/2016 19:22
2,3,7,8-TCDF		ND	0.500	1				02/22/2016 19:22
1,2,3,7,8-PeCDF		ND	2.50	1				02/22/2016 19:22
2,3,4,7,8-PeCDF		ND	2.50	1				02/22/2016 19:22
1,2,3,4,7,8-HxCDF		ND	2.50	1				02/22/2016 19:22
1,2,3,6,7,8-HxCDF		ND	2.50	1				02/22/2016 19:22
2,3,4,6,7,8-HxCDF		ND	2.50	1				02/22/2016 19:22
1,2,3,7,8,9-HxCDF		ND	2.50	1				02/22/2016 19:22
1,2,3,4,6,7,8-HpCDF		ND	2.50	1				02/22/2016 19:22
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				02/22/2016 19:22
OCDF		ND	5.00	1				02/22/2016 19:22
Total-Tetradoxins		ND	0.500	1				02/22/2016 19:22
Total-Heptadoxins		ND	2.50	1				02/22/2016 19:22
Total-Hexadoxins		ND	2.50	1				02/22/2016 19:22
Total-Pentadoxins		ND	2.50	1				02/22/2016 19:22
Total-Tetrafurans		ND	0.500	1				02/22/2016 19:22
Total-Heptafurans		ND	2.50	1				02/22/2016 19:22
Total-Hexafurans		ND	2.50	1				02/22/2016 19:22
Total-Pentafurans		ND	2.50	1				02/22/2016 19:22

Total TEQ: 0

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	47	35-197	02/22/2016 19:22
Labeled Compound Recovery			
13C-2,3,7,8-TCDD	90	25-164	02/22/2016 19:22
13C-1,2,3,7,8-PeCDD	75	25-181	02/22/2016 19:22
13C-1,2,3,4,7,8-HxCDD	80	32-141	02/22/2016 19:22
13C-1,2,3,6,7,8-HxCDD	74	28-130	02/22/2016 19:22
13C-1,2,3,4,6,7,8-HpCDD	76	23-140	02/22/2016 19:22

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-10'	1601569-100A	Soil	01/12/2016 15:05	GC36	117006

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
13C-OCDD		92	17-157					02/22/2016 19:22
13C-2,3,7,8-TCDF		90	24-169					02/22/2016 19:22
13C-1,2,3,7,8-PeCDF		80	24-185					02/22/2016 19:22
13C-2,3,4,7,8-PeCDF		73	21-178					02/22/2016 19:22
13C-1,2,3,4,7,8-HxCDF		77	26-152					02/22/2016 19:22
13C-1,2,3,6,7,8-HxCDF		75	26-123					02/22/2016 19:22
13C-2,3,4,6,7,8-HxCDF		80	28-136					02/22/2016 19:22
13C-1,2,3,7,8,9-HxCDF		80	29-147					02/22/2016 19:22
13C-1,2,3,4,6,7,8-HpCDF		78	28-143					02/22/2016 19:22
13C-1,2,3,4,7,8,9-HpCDF		86	26-138					02/22/2016 19:22

Analyst(s): MG



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID			
B-72A-15'	1601569-101A	Soil	01/12/2016 15:10	GC36	117006			
Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	0.500	1				02/22/2016 20:18
1,2,3,7,8-PeCDD		ND	2.50	1				02/22/2016 20:18
1,2,3,4,7,8-HxCDD		ND	2.50	1				02/22/2016 20:18
1,2,3,6,7,8-HxCDD		ND	2.50	1				02/22/2016 20:18
1,2,3,7,8,9-HxCDD		ND	2.50	1				02/22/2016 20:18
1,2,3,4,6,7,8-HpCDD		ND	2.50	1				02/22/2016 20:18
OCDD		ND	5.00	1				02/22/2016 20:18
2,3,7,8-TCDF		ND	0.500	1				02/22/2016 20:18
1,2,3,7,8-PeCDF		ND	2.50	1				02/22/2016 20:18
2,3,4,7,8-PeCDF		ND	2.50	1				02/22/2016 20:18
1,2,3,4,7,8-HxCDF		ND	2.50	1				02/22/2016 20:18
1,2,3,6,7,8-HxCDF		ND	2.50	1				02/22/2016 20:18
2,3,4,6,7,8-HxCDF		ND	2.50	1				02/22/2016 20:18
1,2,3,7,8,9-HxCDF		ND	2.50	1				02/22/2016 20:18
1,2,3,4,6,7,8-HpCDF		ND	2.50	1				02/22/2016 20:18
1,2,3,4,7,8,9-HpCDF		ND	2.50	1				02/22/2016 20:18
OCDF		ND	5.00	1				02/22/2016 20:18
Total-Tetradoxins		ND	0.500	1				02/22/2016 20:18
Total-Heptadoxins		ND	2.50	1				02/22/2016 20:18
Total-Hexadoxins		ND	2.50	1				02/22/2016 20:18
Total-Pentadoxins		ND	2.50	1				02/22/2016 20:18
Total-Tetrafurans		ND	0.500	1				02/22/2016 20:18
Total-Heptafurans		ND	2.50	1				02/22/2016 20:18
Total-Hexafurans		ND	2.50	1				02/22/2016 20:18
Total-Pentafurans		ND	2.50	1				02/22/2016 20:18

Total TEQ: 0

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	91	35-197	02/22/2016 20:18
Labeled Compound Recovery			
13C-2,3,7,8-TCDD	96	25-164	02/22/2016 20:18
13C-1,2,3,7,8-PeCDD	78	25-181	02/22/2016 20:18
13C-1,2,3,4,7,8-HxCDD	89	32-141	02/22/2016 20:18
13C-1,2,3,6,7,8-HxCDD	78	28-130	02/22/2016 20:18
13C-1,2,3,4,6,7,8-HpCDD	78	23-140	02/22/2016 20:18

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/16/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: E1613
Analytical Method: E1613
Unit: pg/g

Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-15'	1601569-101A	Soil	01/12/2016 15:10	GC36	117006

Analytes	TEF	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
	WHO '05							
13C-OCDD		100	17-157					02/22/2016 20:18
13C-2,3,7,8-TCDF		99	24-169					02/22/2016 20:18
13C-1,2,3,7,8-PeCDF		87	24-185					02/22/2016 20:18
13C-2,3,4,7,8-PeCDF		78	21-178					02/22/2016 20:18
13C-1,2,3,4,7,8-HxCDF		87	26-152					02/22/2016 20:18
13C-1,2,3,6,7,8-HxCDF		81	26-123					02/22/2016 20:18
13C-2,3,4,6,7,8-HxCDF		90	28-136					02/22/2016 20:18
13C-1,2,3,7,8,9-HxCDF		87	29-147					02/22/2016 20:18
13C-1,2,3,4,6,7,8-HpCDF		84	28-143					02/22/2016 20:18
13C-1,2,3,4,7,8,9-HpCDF		91	26-138					02/22/2016 20:18

Analyst(s): MG



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/9/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-5'	1601569-099A	Soil	01/12/2016 15:00	GC5A	116426

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/12/2016 02:07
Aroclor1221	ND	0.050	1	02/12/2016 02:07
Aroclor1232	ND	0.050	1	02/12/2016 02:07
Aroclor1242	ND	0.050	1	02/12/2016 02:07
Aroclor1248	ND	0.050	1	02/12/2016 02:07
Aroclor1254	ND	0.050	1	02/12/2016 02:07
Aroclor1260	ND	0.050	1	02/12/2016 02:07
PCBs, total	ND	0.050	1	02/12/2016 02:07

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	109	70-130	02/12/2016 02:07

Analyst(s): SS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-10'	1601569-100A	Soil	01/12/2016 15:05	GC5A	116426

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	2.5	50	02/17/2016 10:22
Aroclor1221	ND	2.5	50	02/17/2016 10:22
Aroclor1232	ND	2.5	50	02/17/2016 10:22
Aroclor1242	ND	2.5	50	02/17/2016 10:22
Aroclor1248	ND	2.5	50	02/17/2016 10:22
Aroclor1254	ND	2.5	50	02/17/2016 10:22
Aroclor1260	ND	2.5	50	02/17/2016 10:22
PCBs, total	ND	2.5	50	02/17/2016 10:22

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	187	S	70-130	02/17/2016 10:22

Analyst(s): SS

Analytical Comments: a1,h4,c1

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/9/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-72A-15'	1601569-101A	Soil	01/12/2016 15:10	GC5A	116426

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	1.0	20	02/17/2016 11:00
Aroclor1221	ND	1.0	20	02/17/2016 11:00
Aroclor1232	ND	1.0	20	02/17/2016 11:00
Aroclor1242	ND	1.0	20	02/17/2016 11:00
Aroclor1248	ND	1.0	20	02/17/2016 11:00
Aroclor1254	ND	1.0	20	02/17/2016 11:00
Aroclor1260	ND	1.0	20	02/17/2016 11:00
PCBs, total	ND	1.0	20	02/17/2016 11:00

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	221	S	70-130	02/17/2016 11:00

Analyst(s): SS

Analytical Comments: a1,h4,c1

CLIENT: CKG Environmental
 Work Order: 1601569
 Project: Owen's Brockway

ANALYTICAL QC SUMMARY REPORT

BatchID: 117006

SampleID MB-117006	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 2/16/2016
Batch ID: 117006	TestNo: E1613	Run ID: GC36_160223A	Analysis Date: 2/22/2016
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual

2,3,7,8-TCDD	ND	0.500	-
1,2,3,7,8-PeCDD	ND	2.50	-
1,2,3,4,7,8-HxCDD	ND	2.50	-
1,2,3,6,7,8-HxCDD	ND	2.50	-
1,2,3,7,8,9-HxCDD	ND	2.50	-
1,2,3,4,6,7,8-HpCDD	ND	2.50	-
OCDD	ND	5.00	-
2,3,7,8-TCDF	ND	0.500	-
1,2,3,7,8-PeCDF	ND	2.50	-
2,3,4,7,8-PeCDF	ND	2.50	-
1,2,3,4,7,8-HxCDF	ND	2.50	-
1,2,3,6,7,8-HxCDF	ND	2.50	-
2,3,4,6,7,8-HxCDF	ND	2.50	-
1,2,3,7,8,9-HxCDF	ND	2.50	-
1,2,3,4,6,7,8-HpCDF	ND	2.50	-
1,2,3,4,7,8,9-HpCDF	ND	2.50	-
OCDF	ND	5.00	-
Total-Tetradoxins	ND	0.500	-
Total-Heptadoxins	ND	2.50	-
Total-Hexadoxins	ND	2.50	-
Total-Pentadoxins	ND	2.50	-
Total-Tetrafurans	ND	0.500	-
Total-Heptafurans	ND	2.50	-
Total-Hexafurans	ND	2.50	-
Total-Pentafurans	ND	2.50	-

Cleanup Standard

37Cl-2,3,7,8-TCDD	9.22	10	92	35 - 197
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	89.8	100	90	25 - 164
13C-1,2,3,7,8-PeCDD	76.0	100	76	25 - 181
13C-1,2,3,4,7,8-HxCDD	82.2	100	82	32 - 141
13C-1,2,3,6,7,8-HxCDD	75.7	100	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	87.1	100	87	23 - 140
13C-OCDD	175	200	87	17 - 157
13C-2,3,7,8-TCDF	93.6	100	94	24 - 169
13C-1,2,3,7,8-PeCDF	82.7	100	83	24 - 185
13C-2,3,4,7,8-PeCDF	79.3	100	79	21 - 178
13C-1,2,3,4,7,8-HxCDF	78.8	100	79	26 - 152
13C-1,2,3,6,7,8-HxCDF	74.5	100	74	26 - 123
13C-2,3,4,6,7,8-HxCDF	80.7	100	81	28 - 136
13C-1,2,3,7,8,9-HxCDF	83.7	100	84	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	85.0	100	85	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	86.4	100	86	26 - 138

CLIENT: CKG Environmental
 Work Order: 1601569
 Project: Owen's Brockway

ANALYTICAL QC SUMMARY REPORT

BatchID: 117006

SampleID LCS-117006	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 2/16/2016
Batch ID: 117006	TestNo: E1613	Run ID: GC36_160223G	Analysis Date: 2/22/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.5	0.500	10	0	105	67 - 158				
1,2,3,7,8-PeCDD	54.3	2.50	50	0.12	109	70 - 142				
1,2,3,4,7,8-HxCDD	56.1	2.50	50	0.14	112	70 - 164				
1,2,3,6,7,8-HxCDD	54.7	2.50	50	0	109	76 - 134				
1,2,3,7,8,9-HxCDD	59.3	2.50	50	0	119	64 - 162				
1,2,3,4,6,7,8-HpCDD	53.4	2.50	50	0	107	70 - 140				
OCDD	108	5.00	100	0	108	78 - 144				
2,3,7,8-TCDF	10.6	0.500	10	0	106	75 - 158				
1,2,3,7,8-PeCDF	55.6	2.50	50	0	111	80 - 134				
2,3,4,7,8-PeCDF	56.1	2.50	50	0.1	112	68 - 160				
1,2,3,4,7,8-HxCDF	52.9	2.50	50	0.12	106	72 - 134				
1,2,3,6,7,8-HxCDF	54.9	2.50	50	0	110	84 - 130				
2,3,4,6,7,8-HxCDF	54.8	2.50	50	0	110	70 - 156				
1,2,3,7,8,9-HxCDF	54.8	2.50	50	0	110	78 - 130				
1,2,3,4,6,7,8-HpCDF	55.2	2.50	50	0.14	110	82 - 122				
1,2,3,4,7,8,9-HpCDF	56.3	2.50	50	0	113	78 - 138				
OCDF	109	5.00	100	0	109	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	9.46		10		95	31 - 191
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	91.3		100		91	20 - 175
13C-1,2,3,7,8-PeCDD	78.9		100		79	21 - 227
13C-1,2,3,4,7,8-HxCDD	83.8		100		84	21 - 193
13C-1,2,3,6,7,8-HxCDD	80.2		100		80	25 - 163
13C-1,2,3,4,6,7,8-HpCDD	89.6		100		90	26 - 166
13C-OCDD	178		200		89	13 - 199
13C-2,3,7,8-TCDF	90.6		100		91	22 - 152
13C-1,2,3,7,8-PeCDF	83.1		100		83	21 - 192
13C-2,3,4,7,8-PeCDF	76.4		100		76	13 - 328
13C-1,2,3,4,7,8-HxCDF	86.6		100		87	19 - 202
13C-1,2,3,6,7,8-HxCDF	84.5		100		84	21 - 159
13C-2,3,4,6,7,8-HxCDF	82.7		100		83	22 - 176
13C-1,2,3,7,8,9-HxCDF	88.4		100		88	17 - 205
13C-1,2,3,4,6,7,8-HpCDF	91.2		100		91	21 - 158
13C-1,2,3,4,7,8,9-HpCDF	90.4		100		90	20 - 186

CLIENT: CKG Environmental
 Work Order: 1601569
 Project: Owen's Brockway

ANALYTICAL QC SUMMARY REPORT

BatchID: 117006

SampleID 1602332-001AMS	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 2/16/2016
Batch ID: 117006	TestNo: E1613	Run ID: GC36_160223D	Analysis Date: 2/22/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.8	0.500	10	0	108	67 - 158				
1,2,3,7,8-PeCDD	55.6	2.50	50	0.68	110	70 - 142				
1,2,3,4,7,8-HxCDD	54.2	2.50	50	0.3	108	70 - 164				
1,2,3,6,7,8-HxCDD	56.4	2.50	50	3.14	106	76 - 134				
1,2,3,7,8,9-HxCDD	62.5	2.50	50	1.86	121	64 - 162				
1,2,3,4,6,7,8-HpCDD	66.1	2.50	50	22.08	88	70 - 140				
OCDD	177	5.00	100	128.8	49	78 - 144				S
2,3,7,8-TCDF	11.0	0.500	10	0.46	106	75 - 158				
1,2,3,7,8-PeCDF	52.2	2.50	50	0	104	80 - 134				
2,3,4,7,8-PeCDF	54.6	2.50	50	0.2	109	68 - 160				
1,2,3,4,7,8-HxCDF	54.7	2.50	50	0	109	72 - 134				
1,2,3,6,7,8-HxCDF	56.3	2.50	50	0	113	84 - 130				
2,3,4,6,7,8-HxCDF	54.1	2.50	50	0	108	70 - 156				
1,2,3,7,8,9-HxCDF	55.0	2.50	50	0	110	78 - 130				
1,2,3,4,6,7,8-HpCDF	54.6	2.50	50	0	109	82 - 122				
1,2,3,4,7,8,9-HpCDF	54.2	2.50	50	0	108	78 - 138				
OCDF	94.0	5.00	100	3.22	91	63 - 170				

Cleanup Standard

37Cl-2,3,7,8-TCDD	9.06	10	91	31 - 191
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	85.3	100	85	20 - 175
13C-1,2,3,7,8-PeCDD	99.2	100	99	21 - 227
13C-1,2,3,4,7,8-HxCDD	82.5	100	83	21 - 193
13C-1,2,3,6,7,8-HxCDD	77.6	100	78	25 - 163
13C-1,2,3,4,6,7,8-HpCDD	85.4	100	85	26 - 166
13C-OCDD	154	200	77	13 - 199
13C-2,3,7,8-TCDF	82.0	100	82	22 - 152
13C-1,2,3,7,8-PeCDF	101	100	101	21 - 192
13C-2,3,4,7,8-PeCDF	97.7	100	98	13 - 328
13C-1,2,3,4,7,8-HxCDF	80.2	100	80	19 - 202
13C-1,2,3,6,7,8-HxCDF	76.1	100	76	21 - 159
13C-2,3,4,6,7,8-HxCDF	84.0	100	84	22 - 176
13C-1,2,3,7,8,9-HxCDF	83.5	100	83	17 - 205
13C-1,2,3,4,6,7,8-HpCDF	86.8	100	87	21 - 158
13C-1,2,3,4,7,8,9-HpCDF	84.0	100	84	20 - 186

CLIENT: CKG Environmental
 Work Order: 1601569
 Project: Owen's Brockway

ANALYTICAL QC SUMMARY REPORT

BatchID: 117006

SampleID 1602332-001AMSD	TestCode: 1613_FULL_S	Units: pg/g	Prep Date: 2/16/2016
Batch ID: 117006	TestNo: E1613	Run ID: GC36_160223D	Analysis Date: 2/22/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	10.5	0.500	10	0	105	67 - 158	10.8	2.82	20	
1,2,3,7,8-PeCDD	53.9	2.50	50	0.68	107	70 - 142	55.56	2.96	20	
1,2,3,4,7,8-HxCDD	54.1	2.50	50	0.3	108	70 - 164	54.18	0.148	20	
1,2,3,6,7,8-HxCDD	53.4	2.50	50	3.14	100	76 - 134	56.38	5.47	20	
1,2,3,7,8,9-HxCDD	59.2	2.50	50	1.86	115	64 - 162	62.54	5.52	20	
1,2,3,4,6,7,8-HpCDD	59.7	2.50	50	22.08	75	70 - 140	66.12	10.1	20	
OCDD	150	5.00	100	128.8	21	78 - 144	177.34	16.7	20	S
2,3,7,8-TCDF	11.2	0.500	10	0.46	107	75 - 158	11.02	1.44	20	
1,2,3,7,8-PeCDF	50.7	2.50	50	0	101	80 - 134	52.22	2.91	20	
2,3,4,7,8-PeCDF	53.4	2.50	50	0.2	106	68 - 160	54.6	2.18	20	
1,2,3,4,7,8-HxCDF	53.3	2.50	50	0	107	72 - 134	54.72	2.59	20	
1,2,3,6,7,8-HxCDF	54.5	2.50	50	0	109	84 - 130	56.28	3.18	20	
2,3,4,6,7,8-HxCDF	53.4	2.50	50	0	107	70 - 156	54.08	1.27	20	
1,2,3,7,8,9-HxCDF	53.2	2.50	50	0	106	78 - 130	55.02	3.44	20	
1,2,3,4,6,7,8-HpCDF	52.7	2.50	50	0	105	82 - 122	54.64	3.61	20	
1,2,3,4,7,8,9-HpCDF	56.0	2.50	50	0	112	78 - 138	54.2	3.34	20	
OCDF	95.3	5.00	100	3.22	92	63 - 170	94.04	1.33	20	

Cleanup Standard

37Cl-2,3,7,8-TCDD	8.84	10	88	31 - 191
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Labeled Compound Recovery

13C-2,3,7,8-TCDD	85.5	100	85	20 - 175
13C-1,2,3,7,8-PeCDD	99.6	100	100	21 - 227
13C-1,2,3,4,7,8-HxCDD	83.3	100	83	21 - 193
13C-1,2,3,6,7,8-HxCDD	79.3	100	79	25 - 163
13C-1,2,3,4,6,7,8-HpCDD	83.8	100	84	26 - 166
13C-OCDD	145	200	73	13 - 199
13C-2,3,7,8-TCDF	81.4	100	81	22 - 152
13C-1,2,3,7,8-PeCDF	103	100	103	21 - 192
13C-2,3,4,7,8-PeCDF	99.2	100	99	13 - 328
13C-1,2,3,4,7,8-HxCDF	77.3	100	77	19 - 202
13C-1,2,3,6,7,8-HxCDF	77.0	100	77	21 - 159
13C-2,3,4,6,7,8-HxCDF	88.4	100	88	22 - 176
13C-1,2,3,7,8,9-HxCDF	83.7	100	84	17 - 205
13C-1,2,3,4,6,7,8-HpCDF	83.2	100	83	21 - 158
13C-1,2,3,4,7,8,9-HpCDF	78.5	100	79	20 - 186



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/9/16
Date Analyzed: 2/9/16
Instrument: GC23
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116426
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg
Sample ID: MB/LCS-116426
 1511964-005BMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.50	-	-	-	-
Aroclor1221	ND	-	0.50	-	-	-	-
Aroclor1232	ND	-	0.50	-	-	-	-
Aroclor1242	ND	-	0.50	-	-	-	-
Aroclor1248	ND	-	0.50	-	-	-	-
Aroclor1254	ND	-	0.50	-	-	-	-
Aroclor1260	ND	1.87	0.50	1.5	-	125	70-130
PCBs, total	ND	-	0.50	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.562	0.426		0.50	112	85	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		58	NR	NR	-	NR	

Surrogate Recovery

Decachlorobiphenyl	NR	NR			NR	NR	-	NR	
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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601569 **A** ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Christina Kennedy
CKG Environmental
P.O. Box 246
St. Helena, CA 94574
(707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
cc/3rd Party:
PO:
ProjectNo: Owen's Brockway

Bill to:

Accounts Payable
CKG Environmental
808 Zinfandel Lane
St. Helena, CA 94574

Requested TATs: **15 days;
5 days;**

Date Received: **01/15/2016**
Date Logged: **01/19/2016**
Date Add-On: **02/09/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601569-099	B-72A-5'	Soil	1/12/2016 15:00	<input type="checkbox"/>	A	A											
1601569-100	B-72A-10'	Soil	1/12/2016 15:05	<input type="checkbox"/>	A	A											
1601569-101	B-72A-15'	Soil	1/12/2016 15:10	<input type="checkbox"/>	A	A											

Test Legend:

1	1613_FULL_S	2	8082_PCB_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas
Add-On Prepared By: Maria Venegas

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/9/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-099A	B-72A-5'	Soil	SW8082 (PCBs Only)	1	4OZ GJ	1/12/2016 15:00	5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)				15 days			
1601569-100A	B-72A-10'	Soil	SW8082 (PCBs Only)	1	4OZ GJ	1/12/2016 15:05	5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)				15 days			
1601569-101A	B-72A-15'	Soil	SW8082 (PCBs Only)	1	4OZ GJ	1/12/2016 15:10	5 days		<input type="checkbox"/>	
			E1613 (PCDDs & PCDFs)				15 days			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601569 B

Report Created for: CKG Environmental

P.O. Box 246
St. Helena, CA 94574

Project Contact: Christina Kennedy

Project P.O.:

Project Name: Owen's Brockway

Project Received: 01/19/2016

Analytical Report reviewed & approved for release on 02/22/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owen's Brockway
WorkOrder: 1601569

Analytical Qualifiers

H	samples were analyzed out of holding time
S	Surrogate spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a2	sample diluted due to cluttered chromatogram
a3	sample diluted due to high organic content.
a4	reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c2	surrogate recovery outside of the control limits due to matrix interference.
c7	Surrogate value diluted out of range
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.
F8	MS/MSD recovery and/or RPD was out of acceptance criteria; PDS validated the prep batch. If PDS recovery was out of acceptance criteria, DLT validated the prep batch.



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 21:36
Aroclor1221	ND	0.050	1	02/17/2016 21:36
Aroclor1232	ND	0.050	1	02/17/2016 21:36
Aroclor1242	ND	0.050	1	02/17/2016 21:36
Aroclor1248	ND	0.050	1	02/17/2016 21:36
Aroclor1254	ND	0.050	1	02/17/2016 21:36
Aroclor1260	ND	0.050	1	02/17/2016 21:36
PCBs, total	ND	0.050	1	02/17/2016 21:36

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	98	70-130	02/17/2016 21:36

Analyst(s): SS **Analytical Comments:** h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 15:58
Aroclor1221	ND	0.050	1	02/17/2016 15:58
Aroclor1232	ND	0.050	1	02/17/2016 15:58
Aroclor1242	ND	0.050	1	02/17/2016 15:58
Aroclor1248	ND	0.050	1	02/17/2016 15:58
Aroclor1254	ND	0.050	1	02/17/2016 15:58
Aroclor1260	ND	0.050	1	02/17/2016 15:58
PCBs, total	ND	0.050	1	02/17/2016 15:58

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	77	70-130	02/17/2016 15:58

Analyst(s): CK **Analytical Comments:** h4

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 20:33
Aroclor1221	ND	0.050	1	02/17/2016 20:33
Aroclor1232	ND	0.050	1	02/17/2016 20:33
Aroclor1242	ND	0.050	1	02/17/2016 20:33
Aroclor1248	ND	0.050	1	02/17/2016 20:33
Aroclor1254	ND	0.050	1	02/17/2016 20:33
Aroclor1260	ND	0.050	1	02/17/2016 20:33
PCBs, total	ND	0.050	1	02/17/2016 20:33

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	99	70-130	02/17/2016 20:33

Analyst(s): CK Analytical Comments: h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 18:49
Aroclor1221	ND	0.050	1	02/17/2016 18:49
Aroclor1232	ND	0.050	1	02/17/2016 18:49
Aroclor1242	ND	0.050	1	02/17/2016 18:49
Aroclor1248	ND	0.050	1	02/17/2016 18:49
Aroclor1254	ND	0.050	1	02/17/2016 18:49
Aroclor1260	ND	0.050	1	02/17/2016 18:49
PCBs, total	ND	0.050	1	02/17/2016 18:49

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	74	70-130	02/17/2016 18:49

Analyst(s): CK Analytical Comments: h4

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 15:24
Aroclor1221	ND	0.050	1	02/17/2016 15:24
Aroclor1232	ND	0.050	1	02/17/2016 15:24
Aroclor1242	ND	0.050	1	02/17/2016 15:24
Aroclor1248	ND	0.050	1	02/17/2016 15:24
Aroclor1254	ND	0.050	1	02/17/2016 15:24
Aroclor1260	ND	0.050	1	02/17/2016 15:24
PCBs, total	ND	0.050	1	02/17/2016 15:24

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	75	70-130	02/17/2016 15:24

Analyst(s): CK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	2.5	50	02/17/2016 19:24
Aroclor1221	ND	2.5	50	02/17/2016 19:24
Aroclor1232	ND	2.5	50	02/17/2016 19:24
Aroclor1242	ND	2.5	50	02/17/2016 19:24
Aroclor1248	ND	2.5	50	02/17/2016 19:24
Aroclor1254	ND	2.5	50	02/17/2016 19:24
Aroclor1260	ND	2.5	50	02/17/2016 19:24
PCBs, total	ND	2.5	50	02/17/2016 19:24

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	94	70-130	02/17/2016 19:24

Analyst(s): CK

Analytical Comments: h4,a1

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC5A	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/18/2016 22:17
Aroclor1221	ND	0.050	1	02/18/2016 22:17
Aroclor1232	ND	0.050	1	02/18/2016 22:17
Aroclor1242	ND	0.050	1	02/18/2016 22:17
Aroclor1248	ND	0.050	1	02/18/2016 22:17
Aroclor1254	ND	0.050	1	02/18/2016 22:17
Aroclor1260	ND	0.050	1	02/18/2016 22:17
PCBs, total	ND	0.050	1	02/18/2016 22:17

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	100	70-130	02/18/2016 22:17

Analyst(s): SS **Analytical Comments:** h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20'	1601569-073A	Soil	01/14/2016 11:25	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 19:58
Aroclor1221	ND	0.050	1	02/17/2016 19:58
Aroclor1232	ND	0.050	1	02/17/2016 19:58
Aroclor1242	ND	0.050	1	02/17/2016 19:58
Aroclor1248	ND	0.050	1	02/17/2016 19:58
Aroclor1254	ND	0.050	1	02/17/2016 19:58
Aroclor1260	ND	0.050	1	02/17/2016 19:58
PCBs, total	ND	0.050	1	02/17/2016 19:58

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	70	70-130	02/17/2016 19:58

Analyst(s): CK **Analytical Comments:** h4

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20*	1601569-082A	Soil	01/11/2016 09:35	GC22	116647

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	02/17/2016 11:58
Aroclor1221	ND	0.050	1	02/17/2016 11:58
Aroclor1232	ND	0.050	1	02/17/2016 11:58
Aroclor1242	ND	0.050	1	02/17/2016 11:58
Aroclor1248	ND	0.050	1	02/17/2016 11:58
Aroclor1254	ND	0.050	1	02/17/2016 11:58
Aroclor1260	ND	0.050	1	02/17/2016 11:58
PCBs, total	ND	0.050	1	02/17/2016 11:58

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	78	70-130	02/17/2016 11:58

Analyst(s): CK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.40	4	02/19/2016 09:15
tert-Amyl methyl ether (TAME)	ND	H	0.020	4	02/19/2016 09:15
Benzene	ND	H	0.020	4	02/19/2016 09:15
Bromobenzene	ND	H	0.020	4	02/19/2016 09:15
Bromochloromethane	ND	H	0.020	4	02/19/2016 09:15
Bromodichloromethane	ND	H	0.020	4	02/19/2016 09:15
Bromoform	ND	H	0.020	4	02/19/2016 09:15
Bromomethane	ND	H	0.020	4	02/19/2016 09:15
2-Butanone (MEK)	ND	H	0.080	4	02/19/2016 09:15
t-Butyl alcohol (TBA)	ND	H	0.20	4	02/19/2016 09:15
n-Butyl benzene	ND	H	0.020	4	02/19/2016 09:15
sec-Butyl benzene	ND	H	0.020	4	02/19/2016 09:15
tert-Butyl benzene	ND	H	0.020	4	02/19/2016 09:15
Carbon Disulfide	ND	H	0.020	4	02/19/2016 09:15
Carbon Tetrachloride	ND	H	0.020	4	02/19/2016 09:15
Chlorobenzene	ND	H	0.020	4	02/19/2016 09:15
Chloroethane	ND	H	0.020	4	02/19/2016 09:15
Chloroform	ND	H	0.020	4	02/19/2016 09:15
Chloromethane	ND	H	0.020	4	02/19/2016 09:15
2-Chlorotoluene	ND	H	0.020	4	02/19/2016 09:15
4-Chlorotoluene	ND	H	0.020	4	02/19/2016 09:15
Dibromochloromethane	ND	H	0.020	4	02/19/2016 09:15
1,2-Dibromo-3-chloropropane	ND	H	0.016	4	02/19/2016 09:15
1,2-Dibromoethane (EDB)	ND	H	0.016	4	02/19/2016 09:15
Dibromomethane	ND	H	0.020	4	02/19/2016 09:15
1,2-Dichlorobenzene	ND	H	0.020	4	02/19/2016 09:15
1,3-Dichlorobenzene	ND	H	0.020	4	02/19/2016 09:15
1,4-Dichlorobenzene	ND	H	0.020	4	02/19/2016 09:15
Dichlorodifluoromethane	ND	H	0.020	4	02/19/2016 09:15
1,1-Dichloroethane	ND	H	0.020	4	02/19/2016 09:15
1,2-Dichloroethane (1,2-DCA)	ND	H	0.016	4	02/19/2016 09:15
1,1-Dichloroethene	ND	H	0.020	4	02/19/2016 09:15
cis-1,2-Dichloroethene	ND	H	0.020	4	02/19/2016 09:15
trans-1,2-Dichloroethene	ND	H	0.020	4	02/19/2016 09:15
1,2-Dichloropropane	ND	H	0.020	4	02/19/2016 09:15
1,3-Dichloropropane	ND	H	0.020	4	02/19/2016 09:15
2,2-Dichloropropane	ND	H	0.020	4	02/19/2016 09:15

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.020	4	02/19/2016 09:15
cis-1,3-Dichloropropene	ND	H	0.020	4	02/19/2016 09:15
trans-1,3-Dichloropropene	ND	H	0.020	4	02/19/2016 09:15
Diisopropyl ether (DIPE)	ND	H	0.020	4	02/19/2016 09:15
Ethylbenzene	ND	H	0.020	4	02/19/2016 09:15
Ethyl tert-butyl ether (ETBE)	ND	H	0.020	4	02/19/2016 09:15
Freon 113	ND	H	0.020	4	02/19/2016 09:15
Hexachlorobutadiene	ND	H	0.020	4	02/19/2016 09:15
Hexachloroethane	ND	H	0.020	4	02/19/2016 09:15
2-Hexanone	ND	H	0.020	4	02/19/2016 09:15
Isopropylbenzene	ND	H	0.020	4	02/19/2016 09:15
4-Isopropyl toluene	ND	H	0.020	4	02/19/2016 09:15
Methyl-t-butyl ether (MTBE)	ND	H	0.020	4	02/19/2016 09:15
Methylene chloride	ND	H	0.020	4	02/19/2016 09:15
4-Methyl-2-pentanone (MIBK)	ND	H	0.020	4	02/19/2016 09:15
Naphthalene	ND	H	0.020	4	02/19/2016 09:15
n-Propyl benzene	ND	H	0.020	4	02/19/2016 09:15
Styrene	ND	H	0.020	4	02/19/2016 09:15
1,1,1,2-Tetrachloroethane	ND	H	0.020	4	02/19/2016 09:15
1,1,2,2-Tetrachloroethane	ND	H	0.020	4	02/19/2016 09:15
Tetrachloroethene	ND	H	0.020	4	02/19/2016 09:15
Toluene	ND	H	0.020	4	02/19/2016 09:15
1,2,3-Trichlorobenzene	ND	H	0.020	4	02/19/2016 09:15
1,2,4-Trichlorobenzene	ND	H	0.020	4	02/19/2016 09:15
1,1,1-Trichloroethane	ND	H	0.020	4	02/19/2016 09:15
1,1,2-Trichloroethane	ND	H	0.020	4	02/19/2016 09:15
Trichloroethene	ND	H	0.020	4	02/19/2016 09:15
Trichlorofluoromethane	ND	H	0.020	4	02/19/2016 09:15
1,2,3-Trichloropropane	ND	H	0.020	4	02/19/2016 09:15
1,2,4-Trimethylbenzene	ND	H	0.020	4	02/19/2016 09:15
1,3,5-Trimethylbenzene	ND	H	0.020	4	02/19/2016 09:15
Vinyl Chloride	ND	H	0.020	4	02/19/2016 09:15
Xylenes, Total	ND	H	0.020	4	02/19/2016 09:15

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	118	H	70-130		02/19/2016 09:15
Toluene-d8	95	H	70-130		02/19/2016 09:15
4-BFB	65	SH	70-130		02/19/2016 09:15
Benzene-d6	111	H	60-140		02/19/2016 09:15
Ethylbenzene-d10	126	H	60-140		02/19/2016 09:15
1,2-DCB-d4	135	H	60-140		02/19/2016 09:15

Analyst(s): KF

Analytical Comments: c7



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/19/2016 09:54
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/19/2016 09:54
Benzene	ND	H	0.10	20	02/19/2016 09:54
Bromobenzene	ND	H	0.10	20	02/19/2016 09:54
Bromochloromethane	ND	H	0.10	20	02/19/2016 09:54
Bromodichloromethane	ND	H	0.10	20	02/19/2016 09:54
Bromoform	ND	H	0.10	20	02/19/2016 09:54
Bromomethane	ND	H	0.10	20	02/19/2016 09:54
2-Butanone (MEK)	ND	H	0.40	20	02/19/2016 09:54
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/19/2016 09:54
n-Butyl benzene	ND	H	0.10	20	02/19/2016 09:54
sec-Butyl benzene	ND	H	0.10	20	02/19/2016 09:54
tert-Butyl benzene	ND	H	0.10	20	02/19/2016 09:54
Carbon Disulfide	ND	H	0.10	20	02/19/2016 09:54
Carbon Tetrachloride	ND	H	0.10	20	02/19/2016 09:54
Chlorobenzene	ND	H	0.10	20	02/19/2016 09:54
Chloroethane	ND	H	0.10	20	02/19/2016 09:54
Chloroform	ND	H	0.10	20	02/19/2016 09:54
Chloromethane	ND	H	0.10	20	02/19/2016 09:54
2-Chlorotoluene	ND	H	0.10	20	02/19/2016 09:54
4-Chlorotoluene	ND	H	0.10	20	02/19/2016 09:54
Dibromochloromethane	ND	H	0.10	20	02/19/2016 09:54
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/19/2016 09:54
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/19/2016 09:54
Dibromomethane	ND	H	0.10	20	02/19/2016 09:54
1,2-Dichlorobenzene	ND	H	0.10	20	02/19/2016 09:54
1,3-Dichlorobenzene	ND	H	0.10	20	02/19/2016 09:54
1,4-Dichlorobenzene	ND	H	0.10	20	02/19/2016 09:54
Dichlorodifluoromethane	ND	H	0.10	20	02/19/2016 09:54
1,1-Dichloroethane	ND	H	0.10	20	02/19/2016 09:54
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/19/2016 09:54
1,1-Dichloroethene	ND	H	0.10	20	02/19/2016 09:54
cis-1,2-Dichloroethene	ND	H	0.10	20	02/19/2016 09:54
trans-1,2-Dichloroethene	ND	H	0.10	20	02/19/2016 09:54
1,2-Dichloropropane	ND	H	0.10	20	02/19/2016 09:54
1,3-Dichloropropane	ND	H	0.10	20	02/19/2016 09:54
2,2-Dichloropropane	ND	H	0.10	20	02/19/2016 09:54

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/19/2016 09:54
cis-1,3-Dichloropropene	ND	H	0.10	20	02/19/2016 09:54
trans-1,3-Dichloropropene	ND	H	0.10	20	02/19/2016 09:54
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/19/2016 09:54
Ethylbenzene	ND	H	0.10	20	02/19/2016 09:54
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/19/2016 09:54
Freon 113	ND	H	0.10	20	02/19/2016 09:54
Hexachlorobutadiene	ND	H	0.10	20	02/19/2016 09:54
Hexachloroethane	ND	H	0.10	20	02/19/2016 09:54
2-Hexanone	ND	H	0.10	20	02/19/2016 09:54
Isopropylbenzene	ND	H	0.10	20	02/19/2016 09:54
4-Isopropyl toluene	ND	H	0.10	20	02/19/2016 09:54
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/19/2016 09:54
Methylene chloride	ND	H	0.10	20	02/19/2016 09:54
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/19/2016 09:54
Naphthalene	ND	H	0.10	20	02/19/2016 09:54
n-Propyl benzene	ND	H	0.10	20	02/19/2016 09:54
Styrene	ND	H	0.10	20	02/19/2016 09:54
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/19/2016 09:54
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/19/2016 09:54
Tetrachloroethene	ND	H	0.10	20	02/19/2016 09:54
Toluene	ND	H	0.10	20	02/19/2016 09:54
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/19/2016 09:54
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/19/2016 09:54
1,1,1-Trichloroethane	ND	H	0.10	20	02/19/2016 09:54
1,1,2-Trichloroethane	ND	H	0.10	20	02/19/2016 09:54
Trichloroethene	ND	H	0.10	20	02/19/2016 09:54
Trichlorofluoromethane	ND	H	0.10	20	02/19/2016 09:54
1,2,3-Trichloropropane	ND	H	0.10	20	02/19/2016 09:54
1,2,4-Trimethylbenzene	0.40	H	0.10	20	02/19/2016 09:54
1,3,5-Trimethylbenzene	0.76	H	0.10	20	02/19/2016 09:54
Vinyl Chloride	ND	H	0.10	20	02/19/2016 09:54
Xylenes, Total	ND	H	0.10	20	02/19/2016 09:54

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	119	H	70-130		02/19/2016 09:54
Toluene-d8	97	H	70-130		02/19/2016 09:54
4-BFB	80	H	70-130		02/19/2016 09:54
Benzene-d6	122	H	60-140		02/19/2016 09:54
Ethylbenzene-d10	128	H	60-140		02/19/2016 09:54
1,2-DCB-d4	159	SH	60-140		02/19/2016 09:54

Analyst(s): KF

Analytical Comments: c7



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/19/2016 10:33
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/19/2016 10:33
Benzene	ND	H	0.0050	1	02/19/2016 10:33
Bromobenzene	ND	H	0.0050	1	02/19/2016 10:33
Bromochloromethane	ND	H	0.0050	1	02/19/2016 10:33
Bromodichloromethane	ND	H	0.0050	1	02/19/2016 10:33
Bromoform	ND	H	0.0050	1	02/19/2016 10:33
Bromomethane	ND	H	0.0050	1	02/19/2016 10:33
2-Butanone (MEK)	ND	H	0.020	1	02/19/2016 10:33
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/19/2016 10:33
n-Butyl benzene	ND	H	0.0050	1	02/19/2016 10:33
sec-Butyl benzene	ND	H	0.0050	1	02/19/2016 10:33
tert-Butyl benzene	ND	H	0.0050	1	02/19/2016 10:33
Carbon Disulfide	ND	H	0.0050	1	02/19/2016 10:33
Carbon Tetrachloride	ND	H	0.0050	1	02/19/2016 10:33
Chlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
Chloroethane	ND	H	0.0050	1	02/19/2016 10:33
Chloroform	ND	H	0.0050	1	02/19/2016 10:33
Chloromethane	ND	H	0.0050	1	02/19/2016 10:33
2-Chlorotoluene	ND	H	0.0050	1	02/19/2016 10:33
4-Chlorotoluene	ND	H	0.0050	1	02/19/2016 10:33
Dibromochloromethane	ND	H	0.0050	1	02/19/2016 10:33
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/19/2016 10:33
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/19/2016 10:33
Dibromomethane	ND	H	0.0050	1	02/19/2016 10:33
1,2-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
1,3-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
1,4-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
Dichlorodifluoromethane	ND	H	0.0050	1	02/19/2016 10:33
1,1-Dichloroethane	ND	H	0.0050	1	02/19/2016 10:33
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/19/2016 10:33
1,1-Dichloroethene	ND	H	0.0050	1	02/19/2016 10:33
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 10:33
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 10:33
1,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 10:33
1,3-Dichloropropane	ND	H	0.0050	1	02/19/2016 10:33
2,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 10:33

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/19/2016 10:33
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 10:33
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 10:33
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/19/2016 10:33
Ethylbenzene	ND	H	0.0050	1	02/19/2016 10:33
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/19/2016 10:33
Freon 113	ND	H	0.0050	1	02/19/2016 10:33
Hexachlorobutadiene	ND	H	0.0050	1	02/19/2016 10:33
Hexachloroethane	ND	H	0.0050	1	02/19/2016 10:33
2-Hexanone	ND	H	0.0050	1	02/19/2016 10:33
Isopropylbenzene	ND	H	0.0050	1	02/19/2016 10:33
4-Isopropyl toluene	ND	H	0.0050	1	02/19/2016 10:33
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/19/2016 10:33
Methylene chloride	ND	H	0.0050	1	02/19/2016 10:33
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/19/2016 10:33
Naphthalene	ND	H	0.0050	1	02/19/2016 10:33
n-Propyl benzene	ND	H	0.0050	1	02/19/2016 10:33
Styrene	ND	H	0.0050	1	02/19/2016 10:33
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 10:33
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 10:33
Tetrachloroethene	ND	H	0.0050	1	02/19/2016 10:33
Toluene	ND	H	0.0050	1	02/19/2016 10:33
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 10:33
1,1,1-Trichloroethane	ND	H	0.0050	1	02/19/2016 10:33
1,1,2-Trichloroethane	ND	H	0.0050	1	02/19/2016 10:33
Trichloroethene	ND	H	0.0050	1	02/19/2016 10:33
Trichlorofluoromethane	ND	H	0.0050	1	02/19/2016 10:33
1,2,3-Trichloropropane	ND	H	0.0050	1	02/19/2016 10:33
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 10:33
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 10:33
Vinyl Chloride	ND	H	0.0050	1	02/19/2016 10:33
Xylenes, Total	ND	H	0.0050	1	02/19/2016 10:33

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	117	H	70-130		02/19/2016 10:33
Toluene-d8	115	H	70-130		02/19/2016 10:33
4-BFB	87	H	70-130		02/19/2016 10:33
Benzene-d6	109	H	60-140		02/19/2016 10:33
Ethylbenzene-d10	97	H	60-140		02/19/2016 10:33
1,2-DCB-d4	97	H	60-140		02/19/2016 10:33

Analyst(s): KF



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/18/2016 20:09
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/18/2016 20:09
Benzene	ND	H	0.10	20	02/18/2016 20:09
Bromobenzene	ND	H	0.10	20	02/18/2016 20:09
Bromochloromethane	ND	H	0.10	20	02/18/2016 20:09
Bromodichloromethane	ND	H	0.10	20	02/18/2016 20:09
Bromoform	ND	H	0.10	20	02/18/2016 20:09
Bromomethane	ND	H	0.10	20	02/18/2016 20:09
2-Butanone (MEK)	ND	H	0.40	20	02/18/2016 20:09
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/18/2016 20:09
n-Butyl benzene	ND	H	0.10	20	02/18/2016 20:09
sec-Butyl benzene	ND	H	0.10	20	02/18/2016 20:09
tert-Butyl benzene	ND	H	0.10	20	02/18/2016 20:09
Carbon Disulfide	ND	H	0.10	20	02/18/2016 20:09
Carbon Tetrachloride	ND	H	0.10	20	02/18/2016 20:09
Chlorobenzene	ND	H	0.10	20	02/18/2016 20:09
Chloroethane	ND	H	0.10	20	02/18/2016 20:09
Chloroform	ND	H	0.10	20	02/18/2016 20:09
Chloromethane	ND	H	0.10	20	02/18/2016 20:09
2-Chlorotoluene	ND	H	0.10	20	02/18/2016 20:09
4-Chlorotoluene	ND	H	0.10	20	02/18/2016 20:09
Dibromochloromethane	ND	H	0.10	20	02/18/2016 20:09
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/18/2016 20:09
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/18/2016 20:09
Dibromomethane	ND	H	0.10	20	02/18/2016 20:09
1,2-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:09
1,3-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:09
1,4-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:09
Dichlorodifluoromethane	ND	H	0.10	20	02/18/2016 20:09
1,1-Dichloroethane	ND	H	0.10	20	02/18/2016 20:09
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/18/2016 20:09
1,1-Dichloroethene	ND	H	0.10	20	02/18/2016 20:09
cis-1,2-Dichloroethene	ND	H	0.10	20	02/18/2016 20:09
trans-1,2-Dichloroethene	ND	H	0.10	20	02/18/2016 20:09
1,2-Dichloropropane	ND	H	0.10	20	02/18/2016 20:09
1,3-Dichloropropane	ND	H	0.10	20	02/18/2016 20:09
2,2-Dichloropropane	ND	H	0.10	20	02/18/2016 20:09

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/18/2016 20:09
cis-1,3-Dichloropropene	ND	H	0.10	20	02/18/2016 20:09
trans-1,3-Dichloropropene	ND	H	0.10	20	02/18/2016 20:09
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/18/2016 20:09
Ethylbenzene	ND	H	0.10	20	02/18/2016 20:09
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/18/2016 20:09
Freon 113	ND	H	0.10	20	02/18/2016 20:09
Hexachlorobutadiene	ND	H	0.10	20	02/18/2016 20:09
Hexachloroethane	ND	H	0.10	20	02/18/2016 20:09
2-Hexanone	ND	H	0.10	20	02/18/2016 20:09
Isopropylbenzene	ND	H	0.10	20	02/18/2016 20:09
4-Isopropyl toluene	ND	H	0.10	20	02/18/2016 20:09
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/18/2016 20:09
Methylene chloride	ND	H	0.10	20	02/18/2016 20:09
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/18/2016 20:09
Naphthalene	ND	H	0.10	20	02/18/2016 20:09
n-Propyl benzene	ND	H	0.10	20	02/18/2016 20:09
Styrene	ND	H	0.10	20	02/18/2016 20:09
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/18/2016 20:09
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/18/2016 20:09
Tetrachloroethene	ND	H	0.10	20	02/18/2016 20:09
Toluene	ND	H	0.10	20	02/18/2016 20:09
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/18/2016 20:09
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/18/2016 20:09
1,1,1-Trichloroethane	ND	H	0.10	20	02/18/2016 20:09
1,1,2-Trichloroethane	ND	H	0.10	20	02/18/2016 20:09
Trichloroethene	ND	H	0.10	20	02/18/2016 20:09
Trichlorofluoromethane	ND	H	0.10	20	02/18/2016 20:09
1,2,3-Trichloropropane	ND	H	0.10	20	02/18/2016 20:09
1,2,4-Trimethylbenzene	ND	H	0.10	20	02/18/2016 20:09
1,3,5-Trimethylbenzene	ND	H	0.10	20	02/18/2016 20:09
Vinyl Chloride	ND	H	0.10	20	02/18/2016 20:09
Xylenes, Total	ND	H	0.10	20	02/18/2016 20:09

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC10	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	109	H	70-130		02/18/2016 20:09
Toluene-d8	106	H	70-130		02/18/2016 20:09
4-BFB	96	H	70-130		02/18/2016 20:09
Benzene-d6	108	H	60-140		02/18/2016 20:09
Ethylbenzene-d10	154	SH	60-140		02/18/2016 20:09
1,2-DCB-d4	106	H	60-140		02/18/2016 20:09

Analyst(s): KF

Analytical Comments: c7,a3



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/18/2016 20:50
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/18/2016 20:50
Benzene	ND	H	0.10	20	02/18/2016 20:50
Bromobenzene	ND	H	0.10	20	02/18/2016 20:50
Bromochloromethane	ND	H	0.10	20	02/18/2016 20:50
Bromodichloromethane	ND	H	0.10	20	02/18/2016 20:50
Bromoform	ND	H	0.10	20	02/18/2016 20:50
Bromomethane	ND	H	0.10	20	02/18/2016 20:50
2-Butanone (MEK)	ND	H	0.40	20	02/18/2016 20:50
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/18/2016 20:50
n-Butyl benzene	ND	H	0.10	20	02/18/2016 20:50
sec-Butyl benzene	ND	H	0.10	20	02/18/2016 20:50
tert-Butyl benzene	ND	H	0.10	20	02/18/2016 20:50
Carbon Disulfide	ND	H	0.10	20	02/18/2016 20:50
Carbon Tetrachloride	ND	H	0.10	20	02/18/2016 20:50
Chlorobenzene	ND	H	0.10	20	02/18/2016 20:50
Chloroethane	ND	H	0.10	20	02/18/2016 20:50
Chloroform	ND	H	0.10	20	02/18/2016 20:50
Chloromethane	ND	H	0.10	20	02/18/2016 20:50
2-Chlorotoluene	ND	H	0.10	20	02/18/2016 20:50
4-Chlorotoluene	ND	H	0.10	20	02/18/2016 20:50
Dibromochloromethane	ND	H	0.10	20	02/18/2016 20:50
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/18/2016 20:50
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/18/2016 20:50
Dibromomethane	ND	H	0.10	20	02/18/2016 20:50
1,2-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:50
1,3-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:50
1,4-Dichlorobenzene	ND	H	0.10	20	02/18/2016 20:50
Dichlorodifluoromethane	ND	H	0.10	20	02/18/2016 20:50
1,1-Dichloroethane	ND	H	0.10	20	02/18/2016 20:50
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/18/2016 20:50
1,1-Dichloroethene	ND	H	0.10	20	02/18/2016 20:50
cis-1,2-Dichloroethene	ND	H	0.10	20	02/18/2016 20:50
trans-1,2-Dichloroethene	ND	H	0.10	20	02/18/2016 20:50
1,2-Dichloropropane	ND	H	0.10	20	02/18/2016 20:50
1,3-Dichloropropane	ND	H	0.10	20	02/18/2016 20:50
2,2-Dichloropropane	ND	H	0.10	20	02/18/2016 20:50

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/18/2016 20:50
cis-1,3-Dichloropropene	ND	H	0.10	20	02/18/2016 20:50
trans-1,3-Dichloropropene	ND	H	0.10	20	02/18/2016 20:50
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/18/2016 20:50
Ethylbenzene	ND	H	0.10	20	02/18/2016 20:50
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/18/2016 20:50
Freon 113	ND	H	0.10	20	02/18/2016 20:50
Hexachlorobutadiene	ND	H	0.10	20	02/18/2016 20:50
Hexachloroethane	ND	H	0.10	20	02/18/2016 20:50
2-Hexanone	ND	H	0.10	20	02/18/2016 20:50
Isopropylbenzene	ND	H	0.10	20	02/18/2016 20:50
4-Isopropyl toluene	ND	H	0.10	20	02/18/2016 20:50
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/18/2016 20:50
Methylene chloride	ND	H	0.10	20	02/18/2016 20:50
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/18/2016 20:50
Naphthalene	ND	H	0.10	20	02/18/2016 20:50
n-Propyl benzene	ND	H	0.10	20	02/18/2016 20:50
Styrene	ND	H	0.10	20	02/18/2016 20:50
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/18/2016 20:50
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/18/2016 20:50
Tetrachloroethene	ND	H	0.10	20	02/18/2016 20:50
Toluene	ND	H	0.10	20	02/18/2016 20:50
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/18/2016 20:50
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/18/2016 20:50
1,1,1-Trichloroethane	ND	H	0.10	20	02/18/2016 20:50
1,1,2-Trichloroethane	ND	H	0.10	20	02/18/2016 20:50
Trichloroethene	ND	H	0.10	20	02/18/2016 20:50
Trichlorofluoromethane	ND	H	0.10	20	02/18/2016 20:50
1,2,3-Trichloropropane	ND	H	0.10	20	02/18/2016 20:50
1,2,4-Trimethylbenzene	ND	H	0.10	20	02/18/2016 20:50
1,3,5-Trimethylbenzene	ND	H	0.10	20	02/18/2016 20:50
Vinyl Chloride	ND	H	0.10	20	02/18/2016 20:50
Xylenes, Total	ND	H	0.10	20	02/18/2016 20:50

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC10	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	108	H	70-130		02/18/2016 20:50
Toluene-d8	108	H	70-130		02/18/2016 20:50
4-BFB	103	H	70-130		02/18/2016 20:50
Benzene-d6	103	H	60-140		02/18/2016 20:50
Ethylbenzene-d10	182	SH	60-140		02/18/2016 20:50
1,2-DCB-d4	115	H	60-140		02/18/2016 20:50

Analyst(s): KF



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20*	1601569-053A	Soil	01/13/2016 15:25	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	4.0	40	02/19/2016 21:00
tert-Amyl methyl ether (TAME)	ND	H	0.20	40	02/19/2016 21:00
Benzene	ND	H	0.20	40	02/19/2016 21:00
Bromobenzene	ND	H	0.20	40	02/19/2016 21:00
Bromochloromethane	ND	H	0.20	40	02/19/2016 21:00
Bromodichloromethane	ND	H	0.20	40	02/19/2016 21:00
Bromoform	ND	H	0.20	40	02/19/2016 21:00
Bromomethane	ND	H	0.20	40	02/19/2016 21:00
2-Butanone (MEK)	ND	H	0.80	40	02/19/2016 21:00
t-Butyl alcohol (TBA)	ND	H	2.0	40	02/19/2016 21:00
n-Butyl benzene	ND	H	0.20	40	02/19/2016 21:00
sec-Butyl benzene	0.23	H	0.20	40	02/19/2016 21:00
tert-Butyl benzene	ND	H	0.20	40	02/19/2016 21:00
Carbon Disulfide	ND	H	0.20	40	02/19/2016 21:00
Carbon Tetrachloride	ND	H	0.20	40	02/19/2016 21:00
Chlorobenzene	ND	H	0.20	40	02/19/2016 21:00
Chloroethane	ND	H	0.20	40	02/19/2016 21:00
Chloroform	ND	H	0.20	40	02/19/2016 21:00
Chloromethane	ND	H	0.20	40	02/19/2016 21:00
2-Chlorotoluene	ND	H	0.20	40	02/19/2016 21:00
4-Chlorotoluene	ND	H	0.20	40	02/19/2016 21:00
Dibromochloromethane	ND	H	0.20	40	02/19/2016 21:00
1,2-Dibromo-3-chloropropane	ND	H	0.16	40	02/19/2016 21:00
1,2-Dibromoethane (EDB)	ND	H	0.16	40	02/19/2016 21:00
Dibromomethane	ND	H	0.20	40	02/19/2016 21:00
1,2-Dichlorobenzene	ND	H	0.20	40	02/19/2016 21:00
1,3-Dichlorobenzene	ND	H	0.20	40	02/19/2016 21:00
1,4-Dichlorobenzene	ND	H	0.20	40	02/19/2016 21:00
Dichlorodifluoromethane	ND	H	0.20	40	02/19/2016 21:00
1,1-Dichloroethane	ND	H	0.20	40	02/19/2016 21:00
1,2-Dichloroethane (1,2-DCA)	ND	H	0.16	40	02/19/2016 21:00
1,1-Dichloroethene	ND	H	0.20	40	02/19/2016 21:00
cis-1,2-Dichloroethene	ND	H	0.20	40	02/19/2016 21:00
trans-1,2-Dichloroethene	ND	H	0.20	40	02/19/2016 21:00
1,2-Dichloropropane	ND	H	0.20	40	02/19/2016 21:00
1,3-Dichloropropane	ND	H	0.20	40	02/19/2016 21:00
2,2-Dichloropropane	ND	H	0.20	40	02/19/2016 21:00

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC10	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.20	40	02/19/2016 21:00
cis-1,3-Dichloropropene	ND	H	0.20	40	02/19/2016 21:00
trans-1,3-Dichloropropene	ND	H	0.20	40	02/19/2016 21:00
Diisopropyl ether (DIPE)	ND	H	0.20	40	02/19/2016 21:00
Ethylbenzene	ND	H	0.20	40	02/19/2016 21:00
Ethyl tert-butyl ether (ETBE)	ND	H	0.20	40	02/19/2016 21:00
Freon 113	ND	H	0.20	40	02/19/2016 21:00
Hexachlorobutadiene	ND	H	0.20	40	02/19/2016 21:00
Hexachloroethane	ND	H	0.20	40	02/19/2016 21:00
2-Hexanone	ND	H	0.20	40	02/19/2016 21:00
Isopropylbenzene	ND	H	0.20	40	02/19/2016 21:00
4-Isopropyl toluene	ND	H	0.20	40	02/19/2016 21:00
Methyl-t-butyl ether (MTBE)	ND	H	0.20	40	02/19/2016 21:00
Methylene chloride	ND	H	0.20	40	02/19/2016 21:00
4-Methyl-2-pentanone (MIBK)	ND	H	0.20	40	02/19/2016 21:00
Naphthalene	ND	H	0.20	40	02/19/2016 21:00
n-Propyl benzene	ND	H	0.20	40	02/19/2016 21:00
Styrene	ND	H	0.20	40	02/19/2016 21:00
1,1,1,2-Tetrachloroethane	ND	H	0.20	40	02/19/2016 21:00
1,1,2,2-Tetrachloroethane	ND	H	0.20	40	02/19/2016 21:00
Tetrachloroethene	ND	H	0.20	40	02/19/2016 21:00
Toluene	ND	H	0.20	40	02/19/2016 21:00
1,2,3-Trichlorobenzene	ND	H	0.20	40	02/19/2016 21:00
1,2,4-Trichlorobenzene	ND	H	0.20	40	02/19/2016 21:00
1,1,1-Trichloroethane	ND	H	0.20	40	02/19/2016 21:00
1,1,2-Trichloroethane	ND	H	0.20	40	02/19/2016 21:00
Trichloroethene	ND	H	0.20	40	02/19/2016 21:00
Trichlorofluoromethane	ND	H	0.20	40	02/19/2016 21:00
1,2,3-Trichloropropane	ND	H	0.20	40	02/19/2016 21:00
1,2,4-Trimethylbenzene	ND	H	0.20	40	02/19/2016 21:00
1,3,5-Trimethylbenzene	ND	H	0.20	40	02/19/2016 21:00
Vinyl Chloride	ND	H	0.20	40	02/19/2016 21:00
Xylenes, Total	ND	H	0.20	40	02/19/2016 21:00

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC10	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	108	H	70-130		02/19/2016 21:00
Toluene-d8	106	H	70-130		02/19/2016 21:00
4-BFB	89	H	70-130		02/19/2016 21:00
Benzene-d6	92	H	60-140		02/19/2016 21:00
Ethylbenzene-d10	151	SH	60-140		02/19/2016 21:00
1,2-DCB-d4	86	H	60-140		02/19/2016 21:00

Analyst(s): AK

Analytical Comments: a2,c2



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	2.0	20	02/19/2016 13:49
tert-Amyl methyl ether (TAME)	ND	H	0.10	20	02/19/2016 13:49
Benzene	ND	H	0.10	20	02/19/2016 13:49
Bromobenzene	ND	H	0.10	20	02/19/2016 13:49
Bromochloromethane	ND	H	0.10	20	02/19/2016 13:49
Bromodichloromethane	ND	H	0.10	20	02/19/2016 13:49
Bromoform	ND	H	0.10	20	02/19/2016 13:49
Bromomethane	ND	H	0.10	20	02/19/2016 13:49
2-Butanone (MEK)	ND	H	0.40	20	02/19/2016 13:49
t-Butyl alcohol (TBA)	ND	H	1.0	20	02/19/2016 13:49
n-Butyl benzene	0.77	H	0.10	20	02/19/2016 13:49
sec-Butyl benzene	0.85	H	0.10	20	02/19/2016 13:49
tert-Butyl benzene	ND	H	0.10	20	02/19/2016 13:49
Carbon Disulfide	ND	H	0.10	20	02/19/2016 13:49
Carbon Tetrachloride	ND	H	0.10	20	02/19/2016 13:49
Chlorobenzene	ND	H	0.10	20	02/19/2016 13:49
Chloroethane	ND	H	0.10	20	02/19/2016 13:49
Chloroform	ND	H	0.10	20	02/19/2016 13:49
Chloromethane	ND	H	0.10	20	02/19/2016 13:49
2-Chlorotoluene	ND	H	0.10	20	02/19/2016 13:49
4-Chlorotoluene	ND	H	0.10	20	02/19/2016 13:49
Dibromochloromethane	ND	H	0.10	20	02/19/2016 13:49
1,2-Dibromo-3-chloropropane	ND	H	0.080	20	02/19/2016 13:49
1,2-Dibromoethane (EDB)	ND	H	0.080	20	02/19/2016 13:49
Dibromomethane	ND	H	0.10	20	02/19/2016 13:49
1,2-Dichlorobenzene	ND	H	0.10	20	02/19/2016 13:49
1,3-Dichlorobenzene	ND	H	0.10	20	02/19/2016 13:49
1,4-Dichlorobenzene	ND	H	0.10	20	02/19/2016 13:49
Dichlorodifluoromethane	ND	H	0.10	20	02/19/2016 13:49
1,1-Dichloroethane	ND	H	0.10	20	02/19/2016 13:49
1,2-Dichloroethane (1,2-DCA)	ND	H	0.080	20	02/19/2016 13:49
1,1-Dichloroethene	ND	H	0.10	20	02/19/2016 13:49
cis-1,2-Dichloroethene	ND	H	0.10	20	02/19/2016 13:49
trans-1,2-Dichloroethene	ND	H	0.10	20	02/19/2016 13:49
1,2-Dichloropropane	ND	H	0.10	20	02/19/2016 13:49
1,3-Dichloropropane	ND	H	0.10	20	02/19/2016 13:49
2,2-Dichloropropane	ND	H	0.10	20	02/19/2016 13:49

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.10	20	02/19/2016 13:49
cis-1,3-Dichloropropene	ND	H	0.10	20	02/19/2016 13:49
trans-1,3-Dichloropropene	ND	H	0.10	20	02/19/2016 13:49
Diisopropyl ether (DIPE)	ND	H	0.10	20	02/19/2016 13:49
Ethylbenzene	ND	H	0.10	20	02/19/2016 13:49
Ethyl tert-butyl ether (ETBE)	ND	H	0.10	20	02/19/2016 13:49
Freon 113	ND	H	0.10	20	02/19/2016 13:49
Hexachlorobutadiene	ND	H	0.10	20	02/19/2016 13:49
Hexachloroethane	ND	H	0.10	20	02/19/2016 13:49
2-Hexanone	ND	H	0.10	20	02/19/2016 13:49
Isopropylbenzene	0.36	H	0.10	20	02/19/2016 13:49
4-Isopropyl toluene	ND	H	0.10	20	02/19/2016 13:49
Methyl-t-butyl ether (MTBE)	ND	H	0.10	20	02/19/2016 13:49
Methylene chloride	ND	H	0.10	20	02/19/2016 13:49
4-Methyl-2-pentanone (MIBK)	ND	H	0.10	20	02/19/2016 13:49
Naphthalene	ND	H	0.10	20	02/19/2016 13:49
n-Propyl benzene	0.42	H	0.10	20	02/19/2016 13:49
Styrene	ND	H	0.10	20	02/19/2016 13:49
1,1,1,2-Tetrachloroethane	ND	H	0.10	20	02/19/2016 13:49
1,1,2,2-Tetrachloroethane	ND	H	0.10	20	02/19/2016 13:49
Tetrachloroethene	ND	H	0.10	20	02/19/2016 13:49
Toluene	ND	H	0.10	20	02/19/2016 13:49
1,2,3-Trichlorobenzene	ND	H	0.10	20	02/19/2016 13:49
1,2,4-Trichlorobenzene	ND	H	0.10	20	02/19/2016 13:49
1,1,1-Trichloroethane	ND	H	0.10	20	02/19/2016 13:49
1,1,2-Trichloroethane	ND	H	0.10	20	02/19/2016 13:49
Trichloroethene	ND	H	0.10	20	02/19/2016 13:49
Trichlorofluoromethane	ND	H	0.10	20	02/19/2016 13:49
1,2,3-Trichloropropane	ND	H	0.10	20	02/19/2016 13:49
1,2,4-Trimethylbenzene	ND	H	0.10	20	02/19/2016 13:49
1,3,5-Trimethylbenzene	ND	H	0.10	20	02/19/2016 13:49
Vinyl Chloride	ND	H	0.10	20	02/19/2016 13:49
Xylenes, Total	ND	H	0.10	20	02/19/2016 13:49

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	119	H	70-130		02/19/2016 13:49
Toluene-d8	97	H	70-130		02/19/2016 13:49
4-BFB	48	SH	70-130		02/19/2016 13:49
Benzene-d6	116	H	60-140		02/19/2016 13:49
Ethylbenzene-d10	207	SH	60-140		02/19/2016 13:49
1,2-DCB-d4	182	SH	60-140		02/19/2016 13:49

Analyst(s): AK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/19/2016 14:28
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/19/2016 14:28
Benzene	ND	H	0.0050	1	02/19/2016 14:28
Bromobenzene	ND	H	0.0050	1	02/19/2016 14:28
Bromochloromethane	ND	H	0.0050	1	02/19/2016 14:28
Bromodichloromethane	ND	H	0.0050	1	02/19/2016 14:28
Bromoform	ND	H	0.0050	1	02/19/2016 14:28
Bromomethane	ND	H	0.0050	1	02/19/2016 14:28
2-Butanone (MEK)	ND	H	0.020	1	02/19/2016 14:28
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/19/2016 14:28
n-Butyl benzene	ND	H	0.0050	1	02/19/2016 14:28
sec-Butyl benzene	ND	H	0.0050	1	02/19/2016 14:28
tert-Butyl benzene	ND	H	0.0050	1	02/19/2016 14:28
Carbon Disulfide	ND	H	0.0050	1	02/19/2016 14:28
Carbon Tetrachloride	ND	H	0.0050	1	02/19/2016 14:28
Chlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
Chloroethane	ND	H	0.0050	1	02/19/2016 14:28
Chloroform	ND	H	0.0050	1	02/19/2016 14:28
Chloromethane	ND	H	0.0050	1	02/19/2016 14:28
2-Chlorotoluene	ND	H	0.0050	1	02/19/2016 14:28
4-Chlorotoluene	ND	H	0.0050	1	02/19/2016 14:28
Dibromochloromethane	ND	H	0.0050	1	02/19/2016 14:28
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/19/2016 14:28
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/19/2016 14:28
Dibromomethane	ND	H	0.0050	1	02/19/2016 14:28
1,2-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
1,3-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
1,4-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
Dichlorodifluoromethane	ND	H	0.0050	1	02/19/2016 14:28
1,1-Dichloroethane	ND	H	0.0050	1	02/19/2016 14:28
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/19/2016 14:28
1,1-Dichloroethene	ND	H	0.0050	1	02/19/2016 14:28
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 14:28
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 14:28
1,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 14:28
1,3-Dichloropropane	ND	H	0.0050	1	02/19/2016 14:28
2,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 14:28

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/19/2016 14:28
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 14:28
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 14:28
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/19/2016 14:28
Ethylbenzene	ND	H	0.0050	1	02/19/2016 14:28
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/19/2016 14:28
Freon 113	ND	H	0.0050	1	02/19/2016 14:28
Hexachlorobutadiene	ND	H	0.0050	1	02/19/2016 14:28
Hexachloroethane	ND	H	0.0050	1	02/19/2016 14:28
2-Hexanone	ND	H	0.0050	1	02/19/2016 14:28
Isopropylbenzene	ND	H	0.0050	1	02/19/2016 14:28
4-Isopropyl toluene	ND	H	0.0050	1	02/19/2016 14:28
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/19/2016 14:28
Methylene chloride	ND	H	0.0050	1	02/19/2016 14:28
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/19/2016 14:28
Naphthalene	ND	H	0.0050	1	02/19/2016 14:28
n-Propyl benzene	ND	H	0.0050	1	02/19/2016 14:28
Styrene	ND	H	0.0050	1	02/19/2016 14:28
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 14:28
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 14:28
Tetrachloroethene	ND	H	0.0050	1	02/19/2016 14:28
Toluene	ND	H	0.0050	1	02/19/2016 14:28
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 14:28
1,1,1-Trichloroethane	ND	H	0.0050	1	02/19/2016 14:28
1,1,2-Trichloroethane	ND	H	0.0050	1	02/19/2016 14:28
Trichloroethene	ND	H	0.0050	1	02/19/2016 14:28
Trichlorofluoromethane	ND	H	0.0050	1	02/19/2016 14:28
1,2,3-Trichloropropane	ND	H	0.0050	1	02/19/2016 14:28
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 14:28
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 14:28
Vinyl Chloride	ND	H	0.0050	1	02/19/2016 14:28
Xylenes, Total	ND	H	0.0050	1	02/19/2016 14:28

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	115	H	70-130		02/19/2016 14:28
Toluene-d8	110	H	70-130		02/19/2016 14:28
4-BFB	91	H	70-130		02/19/2016 14:28
Benzene-d6	115	H	60-140		02/19/2016 14:28
Ethylbenzene-d10	105	H	60-140		02/19/2016 14:28
1,2-DCB-d4	108	H	60-140		02/19/2016 14:28

Analyst(s): AK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20*	1601569-082A	Soil	01/11/2016 09:35	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	02/19/2016 15:06
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	02/19/2016 15:06
Benzene	ND	H	0.0050	1	02/19/2016 15:06
Bromobenzene	ND	H	0.0050	1	02/19/2016 15:06
Bromochloromethane	ND	H	0.0050	1	02/19/2016 15:06
Bromodichloromethane	ND	H	0.0050	1	02/19/2016 15:06
Bromoform	ND	H	0.0050	1	02/19/2016 15:06
Bromomethane	ND	H	0.0050	1	02/19/2016 15:06
2-Butanone (MEK)	ND	H	0.020	1	02/19/2016 15:06
t-Butyl alcohol (TBA)	ND	H	0.050	1	02/19/2016 15:06
n-Butyl benzene	ND	H	0.0050	1	02/19/2016 15:06
sec-Butyl benzene	ND	H	0.0050	1	02/19/2016 15:06
tert-Butyl benzene	ND	H	0.0050	1	02/19/2016 15:06
Carbon Disulfide	ND	H	0.0050	1	02/19/2016 15:06
Carbon Tetrachloride	ND	H	0.0050	1	02/19/2016 15:06
Chlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
Chloroethane	ND	H	0.0050	1	02/19/2016 15:06
Chloroform	ND	H	0.0050	1	02/19/2016 15:06
Chloromethane	ND	H	0.0050	1	02/19/2016 15:06
2-Chlorotoluene	ND	H	0.0050	1	02/19/2016 15:06
4-Chlorotoluene	ND	H	0.0050	1	02/19/2016 15:06
Dibromochloromethane	ND	H	0.0050	1	02/19/2016 15:06
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	02/19/2016 15:06
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	02/19/2016 15:06
Dibromomethane	ND	H	0.0050	1	02/19/2016 15:06
1,2-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
1,3-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
1,4-Dichlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
Dichlorodifluoromethane	ND	H	0.0050	1	02/19/2016 15:06
1,1-Dichloroethane	ND	H	0.0050	1	02/19/2016 15:06
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	02/19/2016 15:06
1,1-Dichloroethene	ND	H	0.0050	1	02/19/2016 15:06
cis-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 15:06
trans-1,2-Dichloroethene	ND	H	0.0050	1	02/19/2016 15:06
1,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 15:06
1,3-Dichloropropane	ND	H	0.0050	1	02/19/2016 15:06
2,2-Dichloropropane	ND	H	0.0050	1	02/19/2016 15:06

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	GC18	116651
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	02/19/2016 15:06
cis-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 15:06
trans-1,3-Dichloropropene	ND	H	0.0050	1	02/19/2016 15:06
Diisopropyl ether (DIPE)	ND	H	0.0050	1	02/19/2016 15:06
Ethylbenzene	ND	H	0.0050	1	02/19/2016 15:06
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	02/19/2016 15:06
Freon 113	ND	H	0.0050	1	02/19/2016 15:06
Hexachlorobutadiene	ND	H	0.0050	1	02/19/2016 15:06
Hexachloroethane	ND	H	0.0050	1	02/19/2016 15:06
2-Hexanone	ND	H	0.0050	1	02/19/2016 15:06
Isopropylbenzene	ND	H	0.0050	1	02/19/2016 15:06
4-Isopropyl toluene	ND	H	0.0050	1	02/19/2016 15:06
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	02/19/2016 15:06
Methylene chloride	ND	H	0.0050	1	02/19/2016 15:06
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	02/19/2016 15:06
Naphthalene	ND	H	0.0050	1	02/19/2016 15:06
n-Propyl benzene	ND	H	0.0050	1	02/19/2016 15:06
Styrene	ND	H	0.0050	1	02/19/2016 15:06
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 15:06
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	02/19/2016 15:06
Tetrachloroethene	ND	H	0.0050	1	02/19/2016 15:06
Toluene	ND	H	0.0050	1	02/19/2016 15:06
1,2,3-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
1,2,4-Trichlorobenzene	ND	H	0.0050	1	02/19/2016 15:06
1,1,1-Trichloroethane	ND	H	0.0050	1	02/19/2016 15:06
1,1,2-Trichloroethane	ND	H	0.0050	1	02/19/2016 15:06
Trichloroethene	ND	H	0.0050	1	02/19/2016 15:06
Trichlorofluoromethane	ND	H	0.0050	1	02/19/2016 15:06
1,2,3-Trichloropropane	ND	H	0.0050	1	02/19/2016 15:06
1,2,4-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 15:06
1,3,5-Trimethylbenzene	ND	H	0.0050	1	02/19/2016 15:06
Vinyl Chloride	ND	H	0.0050	1	02/19/2016 15:06
Xylenes, Total	ND	H	0.0050	1	02/19/2016 15:06

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	GC18	116651

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	118	H	70-130		02/19/2016 15:06
Toluene-d8	115	H	70-130		02/19/2016 15:06
4-BFB	89	H	70-130		02/19/2016 15:06
Benzene-d6	120	H	60-140		02/19/2016 15:06
Ethylbenzene-d10	107	H	60-140		02/19/2016 15:06
1,2-DCB-d4	111	H	60-140		02/19/2016 15:06

Analyst(s): AK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 13:27
Acenaphthylene	ND	H	0.25	1	02/19/2016 13:27
Acetochlor	ND	H	0.25	1	02/19/2016 13:27
Anthracene	ND	H	0.25	1	02/19/2016 13:27
Benzidine	ND	H	1.3	1	02/19/2016 13:27
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 13:27
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 13:27
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 13:27
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 13:27
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 13:27
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 13:27
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 13:27
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 13:27
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 13:27
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 13:27
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 13:27
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 13:27
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 13:27
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 13:27
4-Chloroaniline	ND	H	0.50	1	02/19/2016 13:27
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 13:27
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 13:27
2-Chlorophenol	ND	H	0.25	1	02/19/2016 13:27
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 13:27
Chrysene	ND	H	0.25	1	02/19/2016 13:27
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 13:27
Dibenzofuran	ND	H	0.25	1	02/19/2016 13:27
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 13:27
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 13:27
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 13:27
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 13:27
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 13:27
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 13:27
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 13:27
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 13:27
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 13:27
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 13:27

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 13:27
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 13:27
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 13:27
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 13:27
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 13:27
Fluoranthene	ND	H	0.25	1	02/19/2016 13:27
Fluorene	ND	H	0.25	1	02/19/2016 13:27
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 13:27
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 13:27
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 13:27
Hexachloroethane	ND	H	0.25	1	02/19/2016 13:27
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 13:27
Isophorone	ND	H	0.25	1	02/19/2016 13:27
2-Methylnaphthalene	2.1	H	0.25	1	02/19/2016 13:27
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 13:27
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 13:27
Naphthalene	ND	H	0.25	1	02/19/2016 13:27
2-Nitroaniline	ND	H	1.3	1	02/19/2016 13:27
3-Nitroaniline	ND	H	1.3	1	02/19/2016 13:27
4-Nitroaniline	ND	H	1.3	1	02/19/2016 13:27
Nitrobenzene	ND	H	0.25	1	02/19/2016 13:27
2-Nitrophenol	ND	H	1.3	1	02/19/2016 13:27
4-Nitrophenol	ND	H	1.3	1	02/19/2016 13:27
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 13:27
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 13:27
Pentachlorophenol	ND	H	1.3	1	02/19/2016 13:27
Phenanthrene	0.36	H	0.25	1	02/19/2016 13:27
Phenol	ND	H	0.25	1	02/19/2016 13:27
Pyrene	ND	H	0.25	1	02/19/2016 13:27
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 13:27
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 13:27
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 13:27

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	GC21	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	92	H	30-130		02/19/2016 13:27
Phenol-d5	87	H	30-130		02/19/2016 13:27
Nitrobenzene-d5	85	H	30-130		02/19/2016 13:27
2-Fluorobiphenyl	79	H	30-130		02/19/2016 13:27
2,4,6-Tribromophenol	48	H	16-130		02/19/2016 13:27
4-Terphenyl-d14	94	H	30-130		02/19/2016 13:27

Analyst(s): HK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	20	10	02/19/2016 14:51
Acenaphthylene	ND	H	20	10	02/19/2016 14:51
Acetochlor	ND	H	20	10	02/19/2016 14:51
Anthracene	ND	H	20	10	02/19/2016 14:51
Benzidine	ND	H	100	10	02/19/2016 14:51
Benzo (a) anthracene	ND	H	20	10	02/19/2016 14:51
Benzo (a) pyrene	ND	H	20	10	02/19/2016 14:51
Benzo (b) fluoranthene	ND	H	20	10	02/19/2016 14:51
Benzo (g,h,i) perylene	ND	H	20	10	02/19/2016 14:51
Benzo (k) fluoranthene	ND	H	20	10	02/19/2016 14:51
Benzyl Alcohol	ND	H	100	10	02/19/2016 14:51
1,1-Biphenyl	ND	H	20	10	02/19/2016 14:51
Bis (2-chloroethoxy) Methane	ND	H	20	10	02/19/2016 14:51
Bis (2-chloroethyl) Ether	ND	H	20	10	02/19/2016 14:51
Bis (2-chloroisopropyl) Ether	ND	H	20	10	02/19/2016 14:51
Bis (2-ethylhexyl) Adipate	ND	H	20	10	02/19/2016 14:51
Bis (2-ethylhexyl) Phthalate	ND	H	20	10	02/19/2016 14:51
4-Bromophenyl Phenyl Ether	ND	H	20	10	02/19/2016 14:51
Butylbenzyl Phthalate	ND	H	20	10	02/19/2016 14:51
4-Chloroaniline	ND	H	40	10	02/19/2016 14:51
4-Chloro-3-methylphenol	ND	H	20	10	02/19/2016 14:51
2-Chloronaphthalene	ND	H	20	10	02/19/2016 14:51
2-Chlorophenol	ND	H	20	10	02/19/2016 14:51
4-Chlorophenyl Phenyl Ether	ND	H	20	10	02/19/2016 14:51
Chrysene	ND	H	20	10	02/19/2016 14:51
Dibenzo (a,h) anthracene	ND	H	20	10	02/19/2016 14:51
Dibenzofuran	ND	H	20	10	02/19/2016 14:51
Di-n-butyl Phthalate	ND	H	20	10	02/19/2016 14:51
1,2-Dichlorobenzene	ND	H	20	10	02/19/2016 14:51
1,3-Dichlorobenzene	ND	H	20	10	02/19/2016 14:51
1,4-Dichlorobenzene	ND	H	20	10	02/19/2016 14:51
3,3-Dichlorobenzidine	ND	H	40	10	02/19/2016 14:51
2,4-Dichlorophenol	ND	H	20	10	02/19/2016 14:51
Diethyl Phthalate	ND	H	20	10	02/19/2016 14:51
2,4-Dimethylphenol	ND	H	20	10	02/19/2016 14:51
Dimethyl Phthalate	ND	H	20	10	02/19/2016 14:51
4,6-Dinitro-2-methylphenol	ND	H	100	10	02/19/2016 14:51

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	500	10	02/19/2016 14:51
2,4-Dinitrotoluene	ND	H	20	10	02/19/2016 14:51
2,6-Dinitrotoluene	ND	H	20	10	02/19/2016 14:51
Di-n-octyl Phthalate	ND	H	40	10	02/19/2016 14:51
1,2-Diphenylhydrazine	ND	H	20	10	02/19/2016 14:51
Fluoranthene	ND	H	20	10	02/19/2016 14:51
Fluorene	ND	H	20	10	02/19/2016 14:51
Hexachlorobenzene	ND	H	20	10	02/19/2016 14:51
Hexachlorobutadiene	ND	H	20	10	02/19/2016 14:51
Hexachlorocyclopentadiene	ND	H	100	10	02/19/2016 14:51
Hexachloroethane	ND	H	20	10	02/19/2016 14:51
Indeno (1,2,3-cd) pyrene	ND	H	20	10	02/19/2016 14:51
Isophorone	ND	H	20	10	02/19/2016 14:51
2-Methylnaphthalene	ND	H	20	10	02/19/2016 14:51
2-Methylphenol (o-Cresol)	ND	H	20	10	02/19/2016 14:51
3 & 4-Methylphenol (m,p-Cresol)	ND	H	20	10	02/19/2016 14:51
Naphthalene	ND	H	20	10	02/19/2016 14:51
2-Nitroaniline	ND	H	100	10	02/19/2016 14:51
3-Nitroaniline	ND	H	100	10	02/19/2016 14:51
4-Nitroaniline	ND	H	100	10	02/19/2016 14:51
Nitrobenzene	ND	H	20	10	02/19/2016 14:51
2-Nitrophenol	ND	H	100	10	02/19/2016 14:51
4-Nitrophenol	ND	H	100	10	02/19/2016 14:51
N-Nitrosodiphenylamine	ND	H	20	10	02/19/2016 14:51
N-Nitrosodi-n-propylamine	ND	H	20	10	02/19/2016 14:51
Pentachlorophenol	ND	H	100	10	02/19/2016 14:51
Phenanthrene	ND	H	20	10	02/19/2016 14:51
Phenol	ND	H	20	10	02/19/2016 14:51
Pyrene	ND	H	20	10	02/19/2016 14:51
1,2,4-Trichlorobenzene	ND	H	20	10	02/19/2016 14:51
2,4,5-Trichlorophenol	ND	H	20	10	02/19/2016 14:51
2,4,6-Trichlorophenol	ND	H	20	10	02/19/2016 14:51

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	GC21	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	102	H	30-130		02/19/2016 14:51
Phenol-d5	94	H	30-130		02/19/2016 14:51
Nitrobenzene-d5	126	H	30-130		02/19/2016 14:51
2-Fluorobiphenyl	103	H	30-130		02/19/2016 14:51
2,4,6-Tribromophenol	69	H	16-130		02/19/2016 14:51
4-Terphenyl-d14	104	H	30-130		02/19/2016 14:51

Analyst(s): HK

Analytical Comments: a3,a4



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	40	20	02/19/2016 19:28
Acenaphthylene	ND	H	40	20	02/19/2016 19:28
Acetochlor	ND	H	40	20	02/19/2016 19:28
Anthracene	ND	H	40	20	02/19/2016 19:28
Benzidine	ND	H	210	20	02/19/2016 19:28
Benzo (a) anthracene	ND	H	40	20	02/19/2016 19:28
Benzo (a) pyrene	ND	H	40	20	02/19/2016 19:28
Benzo (b) fluoranthene	ND	H	40	20	02/19/2016 19:28
Benzo (g,h,i) perylene	ND	H	40	20	02/19/2016 19:28
Benzo (k) fluoranthene	ND	H	40	20	02/19/2016 19:28
Benzyl Alcohol	ND	H	210	20	02/19/2016 19:28
1,1-Biphenyl	ND	H	40	20	02/19/2016 19:28
Bis (2-chloroethoxy) Methane	ND	H	40	20	02/19/2016 19:28
Bis (2-chloroethyl) Ether	ND	H	40	20	02/19/2016 19:28
Bis (2-chloroisopropyl) Ether	ND	H	40	20	02/19/2016 19:28
Bis (2-ethylhexyl) Adipate	ND	H	40	20	02/19/2016 19:28
Bis (2-ethylhexyl) Phthalate	ND	H	40	20	02/19/2016 19:28
4-Bromophenyl Phenyl Ether	ND	H	40	20	02/19/2016 19:28
Butylbenzyl Phthalate	ND	H	40	20	02/19/2016 19:28
4-Chloroaniline	ND	H	80	20	02/19/2016 19:28
4-Chloro-3-methylphenol	ND	H	40	20	02/19/2016 19:28
2-Chloronaphthalene	ND	H	40	20	02/19/2016 19:28
2-Chlorophenol	ND	H	40	20	02/19/2016 19:28
4-Chlorophenyl Phenyl Ether	ND	H	40	20	02/19/2016 19:28
Chrysene	ND	H	40	20	02/19/2016 19:28
Dibenzo (a,h) anthracene	ND	H	40	20	02/19/2016 19:28
Dibenzofuran	ND	H	40	20	02/19/2016 19:28
Di-n-butyl Phthalate	ND	H	40	20	02/19/2016 19:28
1,2-Dichlorobenzene	ND	H	40	20	02/19/2016 19:28
1,3-Dichlorobenzene	ND	H	40	20	02/19/2016 19:28
1,4-Dichlorobenzene	ND	H	40	20	02/19/2016 19:28
3,3-Dichlorobenzidine	ND	H	80	20	02/19/2016 19:28
2,4-Dichlorophenol	ND	H	40	20	02/19/2016 19:28
Diethyl Phthalate	ND	H	40	20	02/19/2016 19:28
2,4-Dimethylphenol	ND	H	40	20	02/19/2016 19:28
Dimethyl Phthalate	ND	H	40	20	02/19/2016 19:28
4,6-Dinitro-2-methylphenol	ND	H	210	20	02/19/2016 19:28

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	1000	20	02/19/2016 19:28
2,4-Dinitrotoluene	ND	H	40	20	02/19/2016 19:28
2,6-Dinitrotoluene	ND	H	40	20	02/19/2016 19:28
Di-n-octyl Phthalate	ND	H	80	20	02/19/2016 19:28
1,2-Diphenylhydrazine	ND	H	40	20	02/19/2016 19:28
Fluoranthene	ND	H	40	20	02/19/2016 19:28
Fluorene	ND	H	40	20	02/19/2016 19:28
Hexachlorobenzene	ND	H	40	20	02/19/2016 19:28
Hexachlorobutadiene	ND	H	40	20	02/19/2016 19:28
Hexachlorocyclopentadiene	ND	H	210	20	02/19/2016 19:28
Hexachloroethane	ND	H	40	20	02/19/2016 19:28
Indeno (1,2,3-cd) pyrene	ND	H	40	20	02/19/2016 19:28
Isophorone	ND	H	40	20	02/19/2016 19:28
2-Methylnaphthalene	ND	H	40	20	02/19/2016 19:28
2-Methylphenol (o-Cresol)	ND	H	40	20	02/19/2016 19:28
3 & 4-Methylphenol (m,p-Cresol)	ND	H	40	20	02/19/2016 19:28
Naphthalene	ND	H	40	20	02/19/2016 19:28
2-Nitroaniline	ND	H	210	20	02/19/2016 19:28
3-Nitroaniline	ND	H	210	20	02/19/2016 19:28
4-Nitroaniline	ND	H	210	20	02/19/2016 19:28
Nitrobenzene	ND	H	40	20	02/19/2016 19:28
2-Nitrophenol	ND	H	210	20	02/19/2016 19:28
4-Nitrophenol	ND	H	210	20	02/19/2016 19:28
N-Nitrosodiphenylamine	ND	H	40	20	02/19/2016 19:28
N-Nitrosodi-n-propylamine	ND	H	40	20	02/19/2016 19:28
Pentachlorophenol	ND	H	210	20	02/19/2016 19:28
Phenanthrene	ND	H	40	20	02/19/2016 19:28
Phenol	ND	H	40	20	02/19/2016 19:28
Pyrene	ND	H	40	20	02/19/2016 19:28
1,2,4-Trichlorobenzene	ND	H	40	20	02/19/2016 19:28
2,4,5-Trichlorophenol	ND	H	40	20	02/19/2016 19:28
2,4,6-Trichlorophenol	ND	H	40	20	02/19/2016 19:28

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-59-10'	1601569-028A	Soil	01/11/2016 13:45	GC21	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	101	H	30-130		02/19/2016 19:28
Phenol-d5	87	H	30-130		02/19/2016 19:28
Nitrobenzene-d5	80	H	30-130		02/19/2016 19:28
2-Fluorobiphenyl	94	H	30-130		02/19/2016 19:28
2,4,6-Tribromophenol	14	SH	16-130		02/19/2016 19:28
4-Terphenyl-d14	85	H	30-130		02/19/2016 19:28

Analyst(s): HK

Analytical Comments: a3,a4,c1



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.50	2	02/19/2016 19:55
Acenaphthylene	ND	H	0.50	2	02/19/2016 19:55
Acetochlor	ND	H	0.50	2	02/19/2016 19:55
Anthracene	ND	H	0.50	2	02/19/2016 19:55
Benzidine	ND	H	2.6	2	02/19/2016 19:55
Benzo (a) anthracene	ND	H	0.50	2	02/19/2016 19:55
Benzo (a) pyrene	ND	H	0.50	2	02/19/2016 19:55
Benzo (b) fluoranthene	ND	H	0.50	2	02/19/2016 19:55
Benzo (g,h,i) perylene	ND	H	0.50	2	02/19/2016 19:55
Benzo (k) fluoranthene	ND	H	0.50	2	02/19/2016 19:55
Benzyl Alcohol	ND	H	2.6	2	02/19/2016 19:55
1,1-Biphenyl	ND	H	0.50	2	02/19/2016 19:55
Bis (2-chloroethoxy) Methane	ND	H	0.50	2	02/19/2016 19:55
Bis (2-chloroethyl) Ether	ND	H	0.50	2	02/19/2016 19:55
Bis (2-chloroisopropyl) Ether	ND	H	0.50	2	02/19/2016 19:55
Bis (2-ethylhexyl) Adipate	ND	H	0.50	2	02/19/2016 19:55
Bis (2-ethylhexyl) Phthalate	ND	H	0.50	2	02/19/2016 19:55
4-Bromophenyl Phenyl Ether	ND	H	0.50	2	02/19/2016 19:55
Butylbenzyl Phthalate	ND	H	0.50	2	02/19/2016 19:55
4-Chloroaniline	ND	H	1.0	2	02/19/2016 19:55
4-Chloro-3-methylphenol	ND	H	0.50	2	02/19/2016 19:55
2-Chloronaphthalene	ND	H	0.50	2	02/19/2016 19:55
2-Chlorophenol	ND	H	0.50	2	02/19/2016 19:55
4-Chlorophenyl Phenyl Ether	ND	H	0.50	2	02/19/2016 19:55
Chrysene	ND	H	0.50	2	02/19/2016 19:55
Dibenzo (a,h) anthracene	ND	H	0.50	2	02/19/2016 19:55
Dibenzofuran	ND	H	0.50	2	02/19/2016 19:55
Di-n-butyl Phthalate	ND	H	0.50	2	02/19/2016 19:55
1,2-Dichlorobenzene	ND	H	0.50	2	02/19/2016 19:55
1,3-Dichlorobenzene	ND	H	0.50	2	02/19/2016 19:55
1,4-Dichlorobenzene	ND	H	0.50	2	02/19/2016 19:55
3,3-Dichlorobenzidine	ND	H	1.0	2	02/19/2016 19:55
2,4-Dichlorophenol	ND	H	0.50	2	02/19/2016 19:55
Diethyl Phthalate	ND	H	0.50	2	02/19/2016 19:55
2,4-Dimethylphenol	ND	H	0.50	2	02/19/2016 19:55
Dimethyl Phthalate	ND	H	0.50	2	02/19/2016 19:55
4,6-Dinitro-2-methylphenol	ND	H	2.6	2	02/19/2016 19:55

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC21	116852
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	13	2	02/19/2016 19:55
2,4-Dinitrotoluene	ND	H	0.50	2	02/19/2016 19:55
2,6-Dinitrotoluene	ND	H	0.50	2	02/19/2016 19:55
Di-n-octyl Phthalate	ND	H	1.0	2	02/19/2016 19:55
1,2-Diphenylhydrazine	ND	H	0.50	2	02/19/2016 19:55
Fluoranthene	ND	H	0.50	2	02/19/2016 19:55
Fluorene	ND	H	0.50	2	02/19/2016 19:55
Hexachlorobenzene	ND	H	0.50	2	02/19/2016 19:55
Hexachlorobutadiene	ND	H	0.50	2	02/19/2016 19:55
Hexachlorocyclopentadiene	ND	H	2.6	2	02/19/2016 19:55
Hexachloroethane	ND	H	0.50	2	02/19/2016 19:55
Indeno (1,2,3-cd) pyrene	ND	H	0.50	2	02/19/2016 19:55
Isophorone	ND	H	0.50	2	02/19/2016 19:55
2-Methylnaphthalene	ND	H	0.50	2	02/19/2016 19:55
2-Methylphenol (o-Cresol)	ND	H	0.50	2	02/19/2016 19:55
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.50	2	02/19/2016 19:55
Naphthalene	ND	H	0.50	2	02/19/2016 19:55
2-Nitroaniline	ND	H	2.6	2	02/19/2016 19:55
3-Nitroaniline	ND	H	2.6	2	02/19/2016 19:55
4-Nitroaniline	ND	H	2.6	2	02/19/2016 19:55
Nitrobenzene	ND	H	0.50	2	02/19/2016 19:55
2-Nitrophenol	ND	H	2.6	2	02/19/2016 19:55
4-Nitrophenol	ND	H	2.6	2	02/19/2016 19:55
N-Nitrosodiphenylamine	ND	H	0.50	2	02/19/2016 19:55
N-Nitrosodi-n-propylamine	ND	H	0.50	2	02/19/2016 19:55
Pentachlorophenol	ND	H	2.6	2	02/19/2016 19:55
Phenanthrene	ND	H	0.50	2	02/19/2016 19:55
Phenol	ND	H	0.50	2	02/19/2016 19:55
Pyrene	ND	H	0.50	2	02/19/2016 19:55
1,2,4-Trichlorobenzene	ND	H	0.50	2	02/19/2016 19:55
2,4,5-Trichlorophenol	ND	H	0.50	2	02/19/2016 19:55
2,4,6-Trichlorophenol	ND	H	0.50	2	02/19/2016 19:55

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	GC21	116852

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	90	H	30-130		02/19/2016 19:55
Phenol-d5	84	H	30-130		02/19/2016 19:55
Nitrobenzene-d5	87	H	30-130		02/19/2016 19:55
2-Fluorobiphenyl	80	H	30-130		02/19/2016 19:55
2,4,6-Tribromophenol	43	H	16-130		02/19/2016 19:55
4-Terphenyl-d14	94	H	30-130		02/19/2016 19:55

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 20:23
Acenaphthylene	ND	H	0.25	1	02/19/2016 20:23
Acetochlor	ND	H	0.25	1	02/19/2016 20:23
Anthracene	ND	H	0.25	1	02/19/2016 20:23
Benzidine	ND	H	1.3	1	02/19/2016 20:23
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 20:23
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 20:23
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 20:23
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 20:23
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 20:23
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 20:23
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 20:23
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 20:23
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 20:23
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 20:23
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 20:23
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 20:23
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 20:23
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 20:23
4-Chloroaniline	ND	H	0.50	1	02/19/2016 20:23
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 20:23
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 20:23
2-Chlorophenol	ND	H	0.25	1	02/19/2016 20:23
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 20:23
Chrysene	ND	H	0.25	1	02/19/2016 20:23
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 20:23
Dibenzofuran	ND	H	0.25	1	02/19/2016 20:23
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 20:23
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:23
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:23
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:23
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 20:23
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 20:23
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 20:23
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 20:23
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 20:23
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 20:23

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 20:23
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 20:23
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 20:23
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 20:23
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 20:23
Fluoranthene	ND	H	0.25	1	02/19/2016 20:23
Fluorene	ND	H	0.25	1	02/19/2016 20:23
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 20:23
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 20:23
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 20:23
Hexachloroethane	ND	H	0.25	1	02/19/2016 20:23
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 20:23
Isophorone	ND	H	0.25	1	02/19/2016 20:23
2-Methylnaphthalene	0.64	H	0.25	1	02/19/2016 20:23
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 20:23
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 20:23
Naphthalene	ND	H	0.50	1	02/19/2016 20:23
2-Nitroaniline	ND	H	1.3	1	02/19/2016 20:23
3-Nitroaniline	ND	H	1.3	1	02/19/2016 20:23
4-Nitroaniline	ND	H	1.3	1	02/19/2016 20:23
Nitrobenzene	ND	H	0.25	1	02/19/2016 20:23
2-Nitrophenol	ND	H	1.3	1	02/19/2016 20:23
4-Nitrophenol	ND	H	1.3	1	02/19/2016 20:23
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 20:23
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 20:23
Pentachlorophenol	ND	H	1.3	1	02/19/2016 20:23
Phenanthrene	0.32	H	0.25	1	02/19/2016 20:23
Phenol	ND	H	0.25	1	02/19/2016 20:23
Pyrene	ND	H	0.25	1	02/19/2016 20:23
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 20:23
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 20:23
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 20:23

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	88	H	30-130		02/19/2016 20:23
Phenol-d5	82	H	30-130		02/19/2016 20:23
Nitrobenzene-d5	86	H	30-130		02/19/2016 20:23
2-Fluorobiphenyl	81	H	30-130		02/19/2016 20:23
2,4,6-Tribromophenol	39	H	16-130		02/19/2016 20:23
4-Terphenyl-d14	91	H	30-130		02/19/2016 20:23

Analyst(s): HK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 20:50
Acenaphthylene	ND	H	0.25	1	02/19/2016 20:50
Acetochlor	ND	H	0.25	1	02/19/2016 20:50
Anthracene	ND	H	0.25	1	02/19/2016 20:50
Benzidine	ND	H	1.3	1	02/19/2016 20:50
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 20:50
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 20:50
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 20:50
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 20:50
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 20:50
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 20:50
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 20:50
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 20:50
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 20:50
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 20:50
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 20:50
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 20:50
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 20:50
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 20:50
4-Chloroaniline	ND	H	0.50	1	02/19/2016 20:50
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 20:50
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 20:50
2-Chlorophenol	ND	H	0.25	1	02/19/2016 20:50
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 20:50
Chrysene	ND	H	0.25	1	02/19/2016 20:50
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 20:50
Dibenzofuran	ND	H	0.25	1	02/19/2016 20:50
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 20:50
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:50
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:50
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 20:50
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 20:50
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 20:50
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 20:50
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 20:50
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 20:50
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 20:50

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 20:50
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 20:50
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 20:50
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 20:50
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 20:50
Fluoranthene	ND	H	0.25	1	02/19/2016 20:50
Fluorene	ND	H	0.25	1	02/19/2016 20:50
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 20:50
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 20:50
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 20:50
Hexachloroethane	ND	H	0.25	1	02/19/2016 20:50
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 20:50
Isophorone	ND	H	0.25	1	02/19/2016 20:50
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 20:50
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 20:50
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 20:50
Naphthalene	ND	H	0.25	1	02/19/2016 20:50
2-Nitroaniline	ND	H	1.3	1	02/19/2016 20:50
3-Nitroaniline	ND	H	1.3	1	02/19/2016 20:50
4-Nitroaniline	ND	H	1.3	1	02/19/2016 20:50
Nitrobenzene	ND	H	0.25	1	02/19/2016 20:50
2-Nitrophenol	ND	H	1.3	1	02/19/2016 20:50
4-Nitrophenol	ND	H	1.3	1	02/19/2016 20:50
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 20:50
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 20:50
Pentachlorophenol	ND	H	1.3	1	02/19/2016 20:50
Phenanthrene	ND	H	0.25	1	02/19/2016 20:50
Phenol	ND	H	0.25	1	02/19/2016 20:50
Pyrene	ND	H	0.25	1	02/19/2016 20:50
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 20:50
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 20:50
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 20:50

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	90	H	30-130		02/19/2016 20:50
Phenol-d5	87	H	30-130		02/19/2016 20:50
Nitrobenzene-d5	82	H	30-130		02/19/2016 20:50
2-Fluorobiphenyl	86	H	30-130		02/19/2016 20:50
2,4,6-Tribromophenol	52	H	16-130		02/19/2016 20:50
4-Terphenyl-d14	96	H	30-130		02/19/2016 20:50

Analyst(s): HK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC21	116931
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	2.5	10	02/19/2016 22:13
Acenaphthylene	ND	H	2.5	10	02/19/2016 22:13
Acetochlor	ND	H	2.5	10	02/19/2016 22:13
Anthracene	ND	H	2.5	10	02/19/2016 22:13
Benzidine	ND	H	13	10	02/19/2016 22:13
Benzo (a) anthracene	ND	H	2.5	10	02/19/2016 22:13
Benzo (a) pyrene	ND	H	2.5	10	02/19/2016 22:13
Benzo (b) fluoranthene	ND	H	2.5	10	02/19/2016 22:13
Benzo (g,h,i) perylene	ND	H	2.5	10	02/19/2016 22:13
Benzo (k) fluoranthene	ND	H	2.5	10	02/19/2016 22:13
Benzyl Alcohol	ND	H	13	10	02/19/2016 22:13
1,1-Biphenyl	ND	H	2.5	10	02/19/2016 22:13
Bis (2-chloroethoxy) Methane	ND	H	2.5	10	02/19/2016 22:13
Bis (2-chloroethyl) Ether	ND	H	2.5	10	02/19/2016 22:13
Bis (2-chloroisopropyl) Ether	ND	H	2.5	10	02/19/2016 22:13
Bis (2-ethylhexyl) Adipate	ND	H	2.5	10	02/19/2016 22:13
Bis (2-ethylhexyl) Phthalate	ND	H	2.5	10	02/19/2016 22:13
4-Bromophenyl Phenyl Ether	ND	H	2.5	10	02/19/2016 22:13
Butylbenzyl Phthalate	ND	H	2.5	10	02/19/2016 22:13
4-Chloroaniline	ND	H	5.0	10	02/19/2016 22:13
4-Chloro-3-methylphenol	ND	H	2.5	10	02/19/2016 22:13
2-Chloronaphthalene	ND	H	2.5	10	02/19/2016 22:13
2-Chlorophenol	ND	H	2.5	10	02/19/2016 22:13
4-Chlorophenyl Phenyl Ether	ND	H	2.5	10	02/19/2016 22:13
Chrysene	ND	H	2.5	10	02/19/2016 22:13
Dibenzo (a,h) anthracene	ND	H	2.5	10	02/19/2016 22:13
Dibenzofuran	ND	H	2.5	10	02/19/2016 22:13
Di-n-butyl Phthalate	ND	H	2.5	10	02/19/2016 22:13
1,2-Dichlorobenzene	ND	H	2.5	10	02/19/2016 22:13
1,3-Dichlorobenzene	ND	H	2.5	10	02/19/2016 22:13
1,4-Dichlorobenzene	ND	H	2.5	10	02/19/2016 22:13
3,3-Dichlorobenzidine	ND	H	5.0	10	02/19/2016 22:13
2,4-Dichlorophenol	ND	H	2.5	10	02/19/2016 22:13
Diethyl Phthalate	ND	H	2.5	10	02/19/2016 22:13
2,4-Dimethylphenol	ND	H	2.5	10	02/19/2016 22:13
Dimethyl Phthalate	ND	H	2.5	10	02/19/2016 22:13
4,6-Dinitro-2-methylphenol	ND	H	13	10	02/19/2016 22:13

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC21	116931
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	63	10	02/19/2016 22:13
2,4-Dinitrotoluene	ND	H	2.5	10	02/19/2016 22:13
2,6-Dinitrotoluene	ND	H	2.5	10	02/19/2016 22:13
Di-n-octyl Phthalate	ND	H	5.0	10	02/19/2016 22:13
1,2-Diphenylhydrazine	ND	H	2.5	10	02/19/2016 22:13
Fluoranthene	ND	H	2.5	10	02/19/2016 22:13
Fluorene	ND	H	2.5	10	02/19/2016 22:13
Hexachlorobenzene	ND	H	2.5	10	02/19/2016 22:13
Hexachlorobutadiene	ND	H	2.5	10	02/19/2016 22:13
Hexachlorocyclopentadiene	ND	H	13	10	02/19/2016 22:13
Hexachloroethane	ND	H	2.5	10	02/19/2016 22:13
Indeno (1,2,3-cd) pyrene	ND	H	2.5	10	02/19/2016 22:13
Isophorone	ND	H	2.5	10	02/19/2016 22:13
2-Methylnaphthalene	ND	H	2.5	10	02/19/2016 22:13
2-Methylphenol (o-Cresol)	ND	H	2.5	10	02/19/2016 22:13
3 & 4-Methylphenol (m,p-Cresol)	ND	H	2.5	10	02/19/2016 22:13
Naphthalene	ND	H	2.5	10	02/19/2016 22:13
2-Nitroaniline	ND	H	13	10	02/19/2016 22:13
3-Nitroaniline	ND	H	13	10	02/19/2016 22:13
4-Nitroaniline	ND	H	13	10	02/19/2016 22:13
Nitrobenzene	ND	H	2.5	10	02/19/2016 22:13
2-Nitrophenol	ND	H	13	10	02/19/2016 22:13
4-Nitrophenol	ND	H	13	10	02/19/2016 22:13
N-Nitrosodiphenylamine	ND	H	2.5	10	02/19/2016 22:13
N-Nitrosodi-n-propylamine	ND	H	2.5	10	02/19/2016 22:13
Pentachlorophenol	ND	H	13	10	02/19/2016 22:13
Phenanthrene	ND	H	2.5	10	02/19/2016 22:13
Phenol	ND	H	2.5	10	02/19/2016 22:13
Pyrene	ND	H	2.5	10	02/19/2016 22:13
1,2,4-Trichlorobenzene	ND	H	2.5	10	02/19/2016 22:13
2,4,5-Trichlorophenol	ND	H	2.5	10	02/19/2016 22:13
2,4,6-Trichlorophenol	ND	H	2.5	10	02/19/2016 22:13

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	GC21	116931

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	112	H	30-130		02/19/2016 22:13
Phenol-d5	104	H	30-130		02/19/2016 22:13
Nitrobenzene-d5	112	H	30-130		02/19/2016 22:13
2-Fluorobiphenyl	99	H	30-130		02/19/2016 22:13
2,4,6-Tribromophenol	61	H	16-130		02/19/2016 22:13
4-Terphenyl-d14	98	H	30-130		02/19/2016 22:13

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.50	2	02/19/2016 21:18
Acenaphthylene	ND	H	0.50	2	02/19/2016 21:18
Acetochlor	ND	H	0.50	2	02/19/2016 21:18
Anthracene	ND	H	0.50	2	02/19/2016 21:18
Benzidine	ND	H	2.6	2	02/19/2016 21:18
Benzo (a) anthracene	ND	H	0.50	2	02/19/2016 21:18
Benzo (a) pyrene	ND	H	0.50	2	02/19/2016 21:18
Benzo (b) fluoranthene	ND	H	0.50	2	02/19/2016 21:18
Benzo (g,h,i) perylene	ND	H	0.50	2	02/19/2016 21:18
Benzo (k) fluoranthene	ND	H	0.50	2	02/19/2016 21:18
Benzyl Alcohol	ND	H	2.6	2	02/19/2016 21:18
1,1-Biphenyl	ND	H	0.50	2	02/19/2016 21:18
Bis (2-chloroethoxy) Methane	ND	H	0.50	2	02/19/2016 21:18
Bis (2-chloroethyl) Ether	ND	H	0.50	2	02/19/2016 21:18
Bis (2-chloroisopropyl) Ether	ND	H	0.50	2	02/19/2016 21:18
Bis (2-ethylhexyl) Adipate	ND	H	0.50	2	02/19/2016 21:18
Bis (2-ethylhexyl) Phthalate	ND	H	0.50	2	02/19/2016 21:18
4-Bromophenyl Phenyl Ether	ND	H	0.50	2	02/19/2016 21:18
Butylbenzyl Phthalate	ND	H	0.50	2	02/19/2016 21:18
4-Chloroaniline	ND	H	1.0	2	02/19/2016 21:18
4-Chloro-3-methylphenol	ND	H	0.50	2	02/19/2016 21:18
2-Chloronaphthalene	ND	H	0.50	2	02/19/2016 21:18
2-Chlorophenol	ND	H	0.50	2	02/19/2016 21:18
4-Chlorophenyl Phenyl Ether	ND	H	0.50	2	02/19/2016 21:18
Chrysene	ND	H	0.50	2	02/19/2016 21:18
Dibenzo (a,h) anthracene	ND	H	0.50	2	02/19/2016 21:18
Dibenzofuran	ND	H	0.50	2	02/19/2016 21:18
Di-n-butyl Phthalate	ND	H	0.50	2	02/19/2016 21:18
1,2-Dichlorobenzene	ND	H	0.50	2	02/19/2016 21:18
1,3-Dichlorobenzene	ND	H	0.50	2	02/19/2016 21:18
1,4-Dichlorobenzene	ND	H	0.50	2	02/19/2016 21:18
3,3-Dichlorobenzidine	ND	H	1.0	2	02/19/2016 21:18
2,4-Dichlorophenol	ND	H	0.50	2	02/19/2016 21:18
Diethyl Phthalate	ND	H	0.50	2	02/19/2016 21:18
2,4-Dimethylphenol	ND	H	0.50	2	02/19/2016 21:18
Dimethyl Phthalate	ND	H	0.50	2	02/19/2016 21:18
4,6-Dinitro-2-methylphenol	ND	H	2.6	2	02/19/2016 21:18

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	13	2	02/19/2016 21:18
2,4-Dinitrotoluene	ND	H	0.50	2	02/19/2016 21:18
2,6-Dinitrotoluene	ND	H	0.50	2	02/19/2016 21:18
Di-n-octyl Phthalate	ND	H	1.0	2	02/19/2016 21:18
1,2-Diphenylhydrazine	ND	H	0.50	2	02/19/2016 21:18
Fluoranthene	ND	H	0.50	2	02/19/2016 21:18
Fluorene	ND	H	0.50	2	02/19/2016 21:18
Hexachlorobenzene	ND	H	0.50	2	02/19/2016 21:18
Hexachlorobutadiene	ND	H	0.50	2	02/19/2016 21:18
Hexachlorocyclopentadiene	ND	H	2.6	2	02/19/2016 21:18
Hexachloroethane	ND	H	0.50	2	02/19/2016 21:18
Indeno (1,2,3-cd) pyrene	ND	H	0.50	2	02/19/2016 21:18
Isophorone	ND	H	0.50	2	02/19/2016 21:18
2-Methylnaphthalene	ND	H	0.50	2	02/19/2016 21:18
2-Methylphenol (o-Cresol)	ND	H	0.50	2	02/19/2016 21:18
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.50	2	02/19/2016 21:18
Naphthalene	ND	H	0.50	2	02/19/2016 21:18
2-Nitroaniline	ND	H	2.6	2	02/19/2016 21:18
3-Nitroaniline	ND	H	2.6	2	02/19/2016 21:18
4-Nitroaniline	ND	H	2.6	2	02/19/2016 21:18
Nitrobenzene	ND	H	0.50	2	02/19/2016 21:18
2-Nitrophenol	ND	H	2.6	2	02/19/2016 21:18
4-Nitrophenol	ND	H	2.6	2	02/19/2016 21:18
N-Nitrosodiphenylamine	ND	H	0.50	2	02/19/2016 21:18
N-Nitrosodi-n-propylamine	ND	H	0.50	2	02/19/2016 21:18
Pentachlorophenol	ND	H	2.6	2	02/19/2016 21:18
Phenanthrene	ND	H	0.50	2	02/19/2016 21:18
Phenol	ND	H	0.50	2	02/19/2016 21:18
Pyrene	ND	H	0.50	2	02/19/2016 21:18
1,2,4-Trichlorobenzene	ND	H	0.50	2	02/19/2016 21:18
2,4,5-Trichlorophenol	ND	H	0.50	2	02/19/2016 21:18
2,4,6-Trichlorophenol	ND	H	0.50	2	02/19/2016 21:18

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20*	1601569-073A	Soil	01/14/2016 11:25	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	92	H	30-130		02/19/2016 21:18
Phenol-d5	86	H	30-130		02/19/2016 21:18
Nitrobenzene-d5	77	H	30-130		02/19/2016 21:18
2-Fluorobiphenyl	85	H	30-130		02/19/2016 21:18
2,4,6-Tribromophenol	50	H	16-130		02/19/2016 21:18
4-Terphenyl-d14	91	H	30-130		02/19/2016 21:18

Analyst(s): HK

Analytical Comments: a3



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20*	1601569-082A	Soil	01/11/2016 09:35	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acenaphthene	ND	H	0.25	1	02/19/2016 21:45
Acenaphthylene	ND	H	0.25	1	02/19/2016 21:45
Acetochlor	ND	H	0.25	1	02/19/2016 21:45
Anthracene	ND	H	0.25	1	02/19/2016 21:45
Benzidine	ND	H	1.3	1	02/19/2016 21:45
Benzo (a) anthracene	ND	H	0.25	1	02/19/2016 21:45
Benzo (a) pyrene	ND	H	0.25	1	02/19/2016 21:45
Benzo (b) fluoranthene	ND	H	0.25	1	02/19/2016 21:45
Benzo (g,h,i) perylene	ND	H	0.25	1	02/19/2016 21:45
Benzo (k) fluoranthene	ND	H	0.25	1	02/19/2016 21:45
Benzyl Alcohol	ND	H	1.3	1	02/19/2016 21:45
1,1-Biphenyl	ND	H	0.25	1	02/19/2016 21:45
Bis (2-chloroethoxy) Methane	ND	H	0.25	1	02/19/2016 21:45
Bis (2-chloroethyl) Ether	ND	H	0.25	1	02/19/2016 21:45
Bis (2-chloroisopropyl) Ether	ND	H	0.25	1	02/19/2016 21:45
Bis (2-ethylhexyl) Adipate	ND	H	0.25	1	02/19/2016 21:45
Bis (2-ethylhexyl) Phthalate	ND	H	0.25	1	02/19/2016 21:45
4-Bromophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 21:45
Butylbenzyl Phthalate	ND	H	0.25	1	02/19/2016 21:45
4-Chloroaniline	ND	H	0.50	1	02/19/2016 21:45
4-Chloro-3-methylphenol	ND	H	0.25	1	02/19/2016 21:45
2-Chloronaphthalene	ND	H	0.25	1	02/19/2016 21:45
2-Chlorophenol	ND	H	0.25	1	02/19/2016 21:45
4-Chlorophenyl Phenyl Ether	ND	H	0.25	1	02/19/2016 21:45
Chrysene	ND	H	0.25	1	02/19/2016 21:45
Dibenzo (a,h) anthracene	ND	H	0.25	1	02/19/2016 21:45
Dibenzofuran	ND	H	0.25	1	02/19/2016 21:45
Di-n-butyl Phthalate	ND	H	0.25	1	02/19/2016 21:45
1,2-Dichlorobenzene	ND	H	0.25	1	02/19/2016 21:45
1,3-Dichlorobenzene	ND	H	0.25	1	02/19/2016 21:45
1,4-Dichlorobenzene	ND	H	0.25	1	02/19/2016 21:45
3,3-Dichlorobenzidine	ND	H	0.50	1	02/19/2016 21:45
2,4-Dichlorophenol	ND	H	0.25	1	02/19/2016 21:45
Diethyl Phthalate	ND	H	0.25	1	02/19/2016 21:45
2,4-Dimethylphenol	ND	H	0.25	1	02/19/2016 21:45
Dimethyl Phthalate	ND	H	0.25	1	02/19/2016 21:45
4,6-Dinitro-2-methylphenol	ND	H	1.3	1	02/19/2016 21:45

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	GC21	116897
Analytes	Result	Qualifiers	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	H	6.3	1	02/19/2016 21:45
2,4-Dinitrotoluene	ND	H	0.25	1	02/19/2016 21:45
2,6-Dinitrotoluene	ND	H	0.25	1	02/19/2016 21:45
Di-n-octyl Phthalate	ND	H	0.50	1	02/19/2016 21:45
1,2-Diphenylhydrazine	ND	H	0.25	1	02/19/2016 21:45
Fluoranthene	ND	H	0.25	1	02/19/2016 21:45
Fluorene	ND	H	0.25	1	02/19/2016 21:45
Hexachlorobenzene	ND	H	0.25	1	02/19/2016 21:45
Hexachlorobutadiene	ND	H	0.25	1	02/19/2016 21:45
Hexachlorocyclopentadiene	ND	H	1.3	1	02/19/2016 21:45
Hexachloroethane	ND	H	0.25	1	02/19/2016 21:45
Indeno (1,2,3-cd) pyrene	ND	H	0.25	1	02/19/2016 21:45
Isophorone	ND	H	0.25	1	02/19/2016 21:45
2-Methylnaphthalene	ND	H	0.25	1	02/19/2016 21:45
2-Methylphenol (o-Cresol)	ND	H	0.25	1	02/19/2016 21:45
3 & 4-Methylphenol (m,p-Cresol)	ND	H	0.25	1	02/19/2016 21:45
Naphthalene	ND	H	0.25	1	02/19/2016 21:45
2-Nitroaniline	ND	H	1.3	1	02/19/2016 21:45
3-Nitroaniline	ND	H	1.3	1	02/19/2016 21:45
4-Nitroaniline	ND	H	1.3	1	02/19/2016 21:45
Nitrobenzene	ND	H	0.25	1	02/19/2016 21:45
2-Nitrophenol	ND	H	1.3	1	02/19/2016 21:45
4-Nitrophenol	ND	H	1.3	1	02/19/2016 21:45
N-Nitrosodiphenylamine	ND	H	0.25	1	02/19/2016 21:45
N-Nitrosodi-n-propylamine	ND	H	0.25	1	02/19/2016 21:45
Pentachlorophenol	ND	H	1.3	1	02/19/2016 21:45
Phenanthrene	ND	H	0.25	1	02/19/2016 21:45
Phenol	ND	H	0.25	1	02/19/2016 21:45
Pyrene	ND	H	0.25	1	02/19/2016 21:45
1,2,4-Trichlorobenzene	ND	H	0.25	1	02/19/2016 21:45
2,4,5-Trichlorophenol	ND	H	0.25	1	02/19/2016 21:45
2,4,6-Trichlorophenol	ND	H	0.25	1	02/19/2016 21:45

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/18/16-2/19/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20*	1601569-082A	Soil	01/11/2016 09:35	GC21	116897

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	114	H	30-130		02/19/2016 21:45
Phenol-d5	106	H	30-130		02/19/2016 21:45
Nitrobenzene-d5	96	H	30-130		02/19/2016 21:45
2-Fluorobiphenyl	100	H	30-130		02/19/2016 21:45
2,4,6-Tribromophenol	44	H	16-130		02/19/2016 21:45
4-Terphenyl-d14	112	H	30-130		02/19/2016 21:45

Analyst(s): HK



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-51-15'	1601569-003A	Soil	01/11/2016 15:05	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 20:32
Chromium	89	0.50	1	02/17/2016 20:32
Lead	3.1	0.50	1	02/17/2016 20:32
Nickel	86	0.50	1	02/17/2016 20:32
Zinc	27	5.0	1	02/17/2016 20:32

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	02/17/2016 20:32

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-57A-3'	1601569-014A	Soil	01/12/2016 11:10	ICP-MS3	116644

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 20:38
Chromium	64	0.50	1	02/17/2016 20:38
Lead	8.8	0.50	1	02/17/2016 20:38
Nickel	60	0.50	1	02/17/2016 20:38
Zinc	56	5.0	1	02/17/2016 20:38

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	02/17/2016 20:38

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-60B-19'	1601569-037A	Soil	01/12/2016 10:40	ICP-MS2	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 21:12
Chromium	110	0.50	1	02/17/2016 21:12
Lead	5.4	0.50	1	02/17/2016 21:12
Nickel	110	0.50	1	02/17/2016 21:12
Zinc	39	5.0	1	02/17/2016 21:12

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	107	70-130	02/17/2016 21:12

Analyst(s): BBO

(Cont.)



Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61C-15'	1601569-048A	Soil	01/13/2016 14:20	ICP-MS2	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	0.26	0.25	1	02/17/2016 21:24
Chromium	96	0.50	1	02/17/2016 21:24
Lead	5.7	0.50	1	02/17/2016 21:24
Nickel	150	0.50	1	02/17/2016 21:24
Zinc	57	5.0	1	02/17/2016 21:24

Surrogates	REC (%)	Limits
Terbium	102	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-61D-20'	1601569-053A	Soil	01/13/2016 15:25	ICP-MS3	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 20:44
Chromium	58	0.50	1	02/17/2016 20:44
Lead	6.1	0.50	1	02/17/2016 20:44
Nickel	95	0.50	1	02/17/2016 20:44
Zinc	31	5.0	1	02/17/2016 20:44

Surrogates	REC (%)	Limits
Terbium	103	70-130

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62D-20'	1601569-069A	Soil	01/14/2016 10:45	ICP-MS1	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/19/2016 17:05
Chromium	49	0.50	1	02/19/2016 17:05
Lead	3.9	0.50	1	02/19/2016 17:05
Nickel	74	0.50	1	02/19/2016 17:05
Zinc	35	5.0	1	02/19/2016 17:05

Surrogates	REC (%)	Limits
Terbium	103	70-130

Analyst(s): AC

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Analytical Report

Client: CKG Environmental
Date Received: 1/19/16 11:41
Date Prepared: 2/12/16
Project: Owen's Brockway

WorkOrder: 1601569
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-62E-20'	1601569-073A	Soil	01/14/2016 11:25	ICP-MS2	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 21:36
Chromium	59	0.50	1	02/17/2016 21:36
Lead	17	0.50	1	02/17/2016 21:36
Nickel	62	0.50	1	02/17/2016 21:36
Zinc	51	5.0	1	02/17/2016 21:36

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	103	70-130	02/17/2016 21:36

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-65C-20'	1601569-082A	Soil	01/11/2016 09:35	ICP-MS2	116652

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	02/17/2016 19:02
Chromium	84	0.50	1	02/17/2016 19:02
Lead	8.4	0.50	1	02/17/2016 19:02
Nickel	79	0.50	1	02/17/2016 19:02
Zinc	59	5.0	1	02/17/2016 19:02

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	02/17/2016 19:02

Analyst(s): AC



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/17/16
Instrument: GC5A
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116647
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg
Sample ID: MB/LCS-116647
 1601239-091AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.157	0.050	0.15	-	105	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0472	0.0482		0.050	94	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		ND<0.25	NR	NR	-	NR	

Surrogate Recovery

Decachlorobiphenyl	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/16/16
Instrument: GC16
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116651
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-116651
 1602516-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0448	0.0050	0.050	-	90	53-116
Benzene	ND	0.0490	0.0050	0.050	-	98	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.233	0.050	0.20	-	117	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0452	0.0050	0.050	-	90	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0470	0.0040	0.050	-	94	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0515	0.0040	0.050	-	103	58-135
1,1-Dichloroethene	ND	0.0456	0.0050	0.050	-	91	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/16/16
Instrument: GC16
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116651
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-116651
 1602516-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0486	0.0050	0.050	-	97	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0483	0.0050	0.050	-	97	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0489	0.0050	0.050	-	98	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0486	0.0050	0.050	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0524	0.0050	0.050	-	105	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/16/16
Instrument: GC16
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116651
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-116651
 1602516-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.124	0.126		0.12	99	101	70-130
Toluene-d8	0.136	0.140		0.12	109	112	70-130
4-BFB	0.0140	0.0141		0.012	112	113	70-130
Benzene-d6	0.101	0.111		0.10	101	111	60-140
Ethylbenzene-d10	0.105	0.118		0.10	105	118	60-140
1,2-DCB-d4	0.0676	0.0827		0.10	68	83	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0584	0.0583	0.050	ND	117,F1	117,F1	56-94	0	20
Benzene	0.0561	0.0556	0.050	ND	112,F1	111,F1	60-106	0.895	20
t-Butyl alcohol (TBA)	0.249	0.247	0.20	ND	124	124	56-140	0	20
Chlorobenzene	0.0526	0.0528	0.050	ND	105	106	61-108	0.274	20
1,2-Dibromoethane (EDB)	0.0531	0.0531	0.050	ND	106	106	54-119	0	20
1,2-Dichloroethane (1,2-DCA)	0.0536	0.0535	0.050	ND	107	107	48-115	0	20
1,1-Dichloroethene	0.0511	0.0502	0.050	ND	102	100	46-111	1.86	20
Diisopropyl ether (DIPE)	0.0590	0.0589	0.050	ND	118,F1	118,F1	53-111	0	20
Ethyl tert-butyl ether (ETBE)	0.0578	0.0578	0.050	ND	116,F1	116,F1	61-104	0	20
Methyl-t-butyl ether (MTBE)	0.0550	0.0551	0.050	ND	110,F1	110,F1	58-107	0	20
Toluene	0.0493	0.0490	0.050	ND	99	98	64-114	0.735	20
Trichloroethene	0.0538	0.0530	0.050	ND	108	106	60-116	1.60	20
Surrogate Recovery									
Dibromofluoromethane	0.143	0.143	0.12		114	114	70-130	0	20
Toluene-d8	0.129	0.129	0.12		103	103	70-130	0	20
4-BFB	0.0127	0.0128	0.012		102	102	88-121	0	20
Benzene-d6	0.116	0.115	0.10		117	115	60-140	1.57	20
Ethylbenzene-d10	0.110	0.110	0.10		110	110	60-140	0	20
1,2-DCB-d4	0.105	0.105	0.10		105	105	60-140	0	20



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/17/16
Date Analyzed: 2/18/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116852
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.72	0.25	5	-	94	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	5.00	0.25	5	-	100	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.42	0.25	5	-	108	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.95	0.25	5	-	99	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/17/16
Date Analyzed: 2/18/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116852
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.85	0.25	5	-	97	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.31	1.3	5	-	86	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.60	0.25	5	-	92	30-130
Pentachlorophenol	ND	5.74	1.3	5	-	115	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	5.32	0.25	5	-	106	30-130
Pyrene	ND	5.45	0.25	5	-	109	30-130
1,2,4-Trichlorobenzene	ND	5.05	0.25	5	-	101	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/17/16
Date Analyzed: 2/18/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116852
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116852

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	6.05	5.29		5	121	106	30-130
Phenol-d5	5.50	5.09		5	110	102	30-130
Nitrobenzene-d5	4.87	4.76		5	97	95	30-130
2-Fluorobiphenyl	4.22	5.66		5	84	113	30-130
2,4,6-Tribromophenol	4.26	4.43		5	85	89	16-130
4-Terphenyl-d14	4.89	4.84		5	98	97	30-130



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/18/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116897
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116897

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.98	0.25	5	-	80	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.33	0.25	5	-	87	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	4.46	0.25	5	-	89	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.20	0.25	5	-	84	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/18/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116897
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116897

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.07	0.25	5	-	81	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.45	1.3	5	-	89	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.92	0.25	5	-	78	30-130
Pentachlorophenol	ND	3.82	1.3	5	-	76	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.36	0.25	5	-	87	30-130
Pyrene	ND	4.29	0.25	5	-	86	30-130
1,2,4-Trichlorobenzene	ND	4.38	0.25	5	-	88	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/18/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116897
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116897

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	4.95	4.43		5	99	89	30-130
Phenol-d5	4.39	3.98		5	88	80	30-130
Nitrobenzene-d5	4.18	3.91		5	84	78	30-130
2-Fluorobiphenyl	3.53	3.50		5	71	70	30-130
2,4,6-Tribromophenol	2.57	2.67		5	51	53	16-130
4-Terphenyl-d14	4.01	3.73		5	80	75	30-130



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/19/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116931
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116931
 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.00	0.25	5	-	80	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.38	0.25	5	-	88	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	4.54	0.25	5	-	91	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.26	0.25	5	-	85	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

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Quality Control Report

Client: CKG Environmental
Date Prepared: 2/19/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116931
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116931
 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	3.99	0.25	5	-	80	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	3.17	1.3	5	-	63	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.77	0.25	5	-	75	30-130
Pentachlorophenol	ND	4.20	1.3	5	-	84	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.35	0.25	5	-	87	30-130
Pyrene	ND	4.27	0.25	5	-	85	30-130
1,2,4-Trichlorobenzene	ND	4.50	0.25	5	-	90	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/19/16
Date Analyzed: 2/19/16
Instrument: GC17
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116931
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-116931
 1602723-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	4.88	4.46		5	98	89	30-130
Phenol-d5	4.30	3.97		5	86	79	30-130
Nitrobenzene-d5	3.98	3.81		5	80	76	30-130
2-Fluorobiphenyl	3.54	3.51		5	71	70	30-130
2,4,6-Tribromophenol	2.54	2.57		5	51	51	16-130
4-Terphenyl-d14	3.93	3.71		5	79	74	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<20	NR	NR	-	NR	
4-Chloro-3-methylphenol	NR	NR		ND<20	NR	NR	-	NR	
2-Chlorophenol	NR	NR		ND<20	NR	NR	-	NR	
1,4-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	
2,4-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	
4-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	
N-Nitrosodi-n-propylamine	NR	NR		ND<20	NR	NR	-	NR	
Pentachlorophenol	NR	NR		ND<100	NR	NR	-	NR	
Phenol	NR	NR		ND<20	NR	NR	-	NR	
Pyrene	NR	NR		ND<20	NR	NR	-	NR	
1,2,4-Trichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	
Phenol-d5	NR	NR			NR	NR	-	NR	
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/16/16
Instrument: ICP-MS1
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116644
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-116644
 1602477-002AMS/MSD
 1602477-002APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.2	0.25	50	-	100	75-125
Chromium	ND	51.3	0.50	50	-	103	75-125
Lead	ND	53.5	0.50	50	-	107	75-125
Nickel	ND	52.3	0.50	50	-	105	75-125
Zinc	ND	530	5.0	500	-	106	75-125

Surrogate Recovery

Terbium	542	548		500	108	110	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.8	50.7	50	ND	102	101	75-125	0.197	20
Chromium	76.9	79.9	50	ND	154,F8	160,F8	75-125	3.86	20
Lead	55.8	56.7	50	ND	112	113	75-125	1.49	20
Nickel	82.9	83.2	50	ND	166,F8	166,F8	75-125	0	20
Zinc	569	558	500	ND	114	112	75-125	1.81	20

Surrogate Recovery

Terbium	553	542	500		111	108	70-130	2.01	20
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Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	53.7	50	ND	107	80-120
Nickel	56.0	50	ND	112	80-120



Quality Control Report

Client: CKG Environmental
Date Prepared: 2/12/16
Date Analyzed: 2/17/16
Instrument: ICP-MS3
Matrix: Soil
Project: Owen's Brockway

WorkOrder: 1601569
BatchID: 116652
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-116652
 1601569-082AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	51.9	0.25	50	-	104	75-125
Chromium	ND	52.4	0.50	50	-	105	75-125
Lead	ND	52.8	0.50	50	-	106	75-125
Nickel	ND	53.6	0.50	50	-	107	75-125
Zinc	ND	543	5.0	500	-	109	75-125

Surrogate Recovery

Terbium	534	546		500	107	109	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	49.6	47.6	50	ND	99	95	75-125	4.20	20
Chromium	137	142	50	83.51	107	118	75-125	3.94	20
Lead	59.7	58.9	50	8.365	103	101	75-125	1.37	20
Nickel	126	135	50	78.59	94	112	75-125	7.15	20
Zinc	564	554	500	59.19	101	99	75-125	1.84	20

Surrogate Recovery

Terbium	528	519	500		106	104	70-130	1.83	20
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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601569 **B** ClientCode: CKGS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Christina Kennedy
 CKG Environmental
 P.O. Box 246
 St. Helena, CA 94574
 (707) 967-8080 FAX: (707) 967-8080

Email: ckennedy@geologist.com
 cc/3rd Party:
 PO:
 ProjectNo: Owen's Brockway

Bill to:
 Accounts Payable
 CKG Environmental
 808 Zinfandel Lane
 St. Helena, CA 94574

Requested TAT: 5 days;

Date Received: 01/15/2016
Date Logged: 01/19/2016
Date Add-On: 02/11/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1601569-003	B-51-15'	Soil	1/11/2016 15:05	<input type="checkbox"/>	A	A	A	A									
1601569-014	B-57A-3'	Soil	1/12/2016 11:10	<input type="checkbox"/>	A	A	A	A									
1601569-028	B-59-10'	Soil	1/11/2016 13:45	<input type="checkbox"/>	A	A	A	A									
1601569-037	B-60B-19'	Soil	1/12/2016 10:40	<input type="checkbox"/>	A	A	A	A									
1601569-048	B-61C-15'	Soil	1/13/2016 14:20	<input type="checkbox"/>	A	A	A	A									
1601569-053	B-61D-20'	Soil	1/13/2016 15:25	<input type="checkbox"/>	A	A	A	A									
1601569-069	B-62D-20'	Soil	1/14/2016 10:45	<input type="checkbox"/>	A	A	A	A									
1601569-073	B-62E-20'	Soil	1/14/2016 11:25	<input type="checkbox"/>	A	A	A	A									
1601569-082	B-65C-20'	Soil	1/11/2016 9:35	<input type="checkbox"/>	A	A	A	A									

Test Legend:

1	8082_PCB_S	2	8260B_S	3	8270_S	4	LUFTMS_6020_TTLC_S
5		6		7		8	
9		10		11		12	

Project Manager:

Prepared by: Maria Venegas

Add-On Prepared By: Maria Venegas

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT. addon's added 2/11/16.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT. addon's added 2/11/16.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-003A	B-51-15'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/11/2016 15:05	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601569-014A	B-57A-3'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/12/2016 11:10	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601569-028A	B-59-10'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/11/2016 13:45	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601569-037A	B-60B-19'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/12/2016 10:40	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days			
			SW8260B (VOCs)				5 days			
			SW8082 (PCBs Only)				5 days			
1601569-048A	B-61C-15'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/13/2016 14:20	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT. addon's added 2/11/16.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-048A	B-61C-15'	Soil	SW8270C (SVOCs)	1	4OZ GJ	1/13/2016 14:20	5 days		<input type="checkbox"/>	
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601569-053A	B-61D-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/13/2016 15:25	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601569-069A	B-62D-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/14/2016 10:45	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601569-073A	B-62E-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/14/2016 11:25	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		
			SW8260B (VOCs)				5 days	<input type="checkbox"/>		
			SW8082 (PCBs Only)				5 days	<input type="checkbox"/>		
1601569-082A	B-65C-20'	Soil	SW6020 (LUFT)	1	4OZ GJ	1/11/2016 9:35	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)				5 days	<input type="checkbox"/>		

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1601569

Project: Owen's Brockway

Client Contact: Christina Kennedy

Date Logged: 1/19/2016

Comments: PCBs & 1613 added to 099,100,101 2/9/16 STAT. addon's added 2/11/16.

Contact's Email: ckennedy@geologist.com

Date Add-On: 2/11/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601569-082A	B-65C-20'	Soil	SW8260B (VOCs)	1	4OZ GJ	1/11/2016 9:35	5 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)				5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

